I'm not a robot



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Decimals, Fractions and Percentages are just different ways of showing the same value: A Half can be written... ... as a fraction: 12 ... as a decimal: 0.5 ... as a percentage: 25% Here, have a play with it yourself: numbers/images/ani-frac-num-pct.js Here is a
table of commonly used values shown in Percent, Decimal and Fraction 1% 0.01 1/100 5% 0.05 1/2 010% 0.1 1/10 12% 0.125 1/8 20% 0.2 1/5 25% 0.25 1/4 331/3% 0.333... 1/3 50% 0.5 1/2 75% 0.75 3/4 80% 0.8 4/5 90% 0.9 9/10 99% 0.99 99/100 100% 1 125% 1.25 5/4 150% 1.5 3/2 200% 2 To convert from percent to
decimal divide by 100 and remove the % sign. An easy way to divide by 100 is to move the decimal point 2 places to the left. From Percent To convert from decimal to percent multiply by 100% An easy way to multiply by 100 is to move
the decimal point 2 places to the right: From Decimal To Percent move the decimal point 2 places to the right Don't forget to add the % sign! From Fraction to a decimal to a fraction needs a little more work.
First, write down the decimal "over" the number 1:0.751Multiply top and bottom by 10 for every number afterthe decimal point (10 for 1 number, 100 for 2 numbers, and so on). In this case multiply by 100:0.75 1001 100Calculate:75100 Then Simplify the fraction: 34 To convert a fraction to a percentage divide the top number by the bottom number,
then multiply the result by 100% First divide 3 by 8: 3 8 = 0.375 Then multiply by 100%: 0.375 100% = 37.5% Answer: 38 = 37.5% To convert to a decimal (e80/100): 0.8Write down the
decimal "over" the number 1:0.81Multiply top and bottom by 10 for every numberafter the decimal point (10 for 1 number, 100 for 2 numbers, and so on):In this case multiply by 10:0.8 101 10Calculate:810Then Simplify the fraction: 45 881, 1305,882, 1306,883, 1307,884, 1308,885, 1309,886, 1310 Copyright 2025 Rod Pierce Here you will learn
about comparing fractions, decimals, and percentages, including how to define a fraction, a decimal, and a percentage, convert between them. Students first learn about comparing fractions and decimals in the fifth grade and expand this knowledge to percents in the sixth and seventh grades when working with ratio and
proportional relationships and the number system. Fractions, decimals, and percentages are different ways of expressing the same value. Fractions equal parts the whole has been divided into. The number above the line) shows
 how many of the equal parts we have. 3 parts shaded out of 5 equal parts. Read as three-fifths See also: Fractions Decimal system splits whole numbers into tenths, hundredths, thousandths, and so on. 0.15 is represented on the place value
chart. Read as fifteen-hundredths. See also: Decimals Percentages are numbers which are expressed as a fraction of 100. Percent sign). 42 shaded parts out of 100 equal parts is \, \cfrac{42}{100} \, which is 42\%. See also: Percents Lets look at how you can express
twenty-hundredths, \, \cfrac\{20\}\{100\} \, , as a fraction, decimal and percent. FRACTION DECIMAL PERCENTAs a fraction: \cfrac\{20\}\{100\} =\cfrac\{20\}\{100\} =\cfrac\{20\}\{100\} =\cfrac\{20\}\{100\} = \cfrac\{20\}\{100\} =\cfrac\{20\}\{100\} =\cfra
represents 0.01. As a percent: \cfrac{20}{100}=20 \% 20 shaded pieces out of 100 pieces. In order to compare fractions, decimals and percentages, you will need to know how to convert them to the same form. Converting Fractions, Decimals, and Percents \hspace{1.2cm} to Fractions with a Denominator of \textbf{100} \hspace{1.2cm} Fractions
(Use \ equivalent \ fractions) \ Decimals \ (Numbers \ to \ right \ of \ decimal \ point \ are \ the \ numerator \ of \ the \ fraction) \ Percents \ (Percents \ are \ fractions) \ O.50 = \ (50) \{100\} \ O.50 = \ (50) \{1
0.75 = cfrac \{75\}\{100\} \ 0.30 = cfrac \{30\}\{100\} \ 0.30 = cfrac \{30\}\{1
 fractions) \ Decimals \ (Multiply \ decimal \ by \ textbf{100}) \ (cfrac{3}{10} = cfrac{3}{10} = cfrac{3}{10}
30\% Step-by-step guide: Decimal to a percent Step-by-step guide: Fraction to a percent Step-by-step guide: Fraction and Percents \hspace \{1.2cm\} to Decimals (Change to a fraction and then decimal in the hundredths place) 50\%=\cfrac{50}{100}=0.50=0.5 Notice how 50
becomes 0.50 which is the same as dividing 50 by 100 75\%=\cfrac{75}{100}=0.75 Notice how 75 becomes 0.75 which is the same as dividing 33 by 100 Step-by-step guide: Fraction to a decimal Step-by-step guide: Percent to a decimal Use this quiz
to assess your grade 4 to 6 students understanding of converting fractions, decimals, and percents. 10+ questions with answers to identify areas
of strength and support! DOWNLOAD FREE Now that you know how to convert fractions, decimals, and percents to the same form, lets compare them. For example, list the following numbers in order from least to greatest. \cfrac{1}{5} Before comparing
the numbers, convert them all to fractions with a denominator of 100. \cfrac{1}{4}=\cfrac{25}{100} 0.3=\cfrac{25}{100} \cfrac{25}{100} \cfrac{25}{100} 0.3=\cfrac{20}{100} \cfrac{25}{100} \c
\cfrac{1}{4}=\cfrac{25}{100}=25 \% 0.19 \, multiply by 100 to change a decimal to a percent. 0.3 \times 100=30. This is the same as moving the decimal point 2 decimal places to the
Base Ten (5.NBT.A.3.a)Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, for example, 347.392 = 3 \times 100 \times 
(6.RP.A.3.c) Find a percent of a quantity as a rate per 100 (for example, 30\% of a quantity means \; \cfrac{30}{100} \; times the quantity); solve problems involving finding the whole, given a part and the percent. Grade 7 The Number System (7.NS.2d) Convert a rational number to a decimal using long division; know that the decimal form of a rational
number terminates in 0s or eventually repeats. In order to compare fractions, decimals, and percentages, convert the numbers in the new form. If youre comparing the numbers, go to Step 4. Write the numbers in the correct order.
Convert the numbers below to fractions with a denominator of 100. \cfrac{3}{4} \, , \; 75 \%, \; 0.75 Choose a form (fractions to convert the numbers to fractions, use equivalent fractions to convert the numbers to fractions to convert the numbers to fractions.
100. \cfrac\{3\}\{4\}= \cfrac\{3\}, \times \, 25\}= \cfrac\{75\}\{100\} \. Write the percent as a fraction. 0.75 is seventy-five hundredths, which is \, \cfrac\{75\}\{100\} \. 3Write the numbers in the new form. If youre comparing the numbers, go to Step
4. \cfrac{3}{4} = \cfrac{75}{100} 0.75 = \cfrac{75}{100} 75 \% = \cfrac{75}{100} You are not comparing the numbers to decimal numbers. Convert the numbers to the form you
chose. Rewrite the fraction as a division problem, then use long division to divide the numerator by the denominator. 2 \div 5 = 0.4 Divide the percent number by 100. 40 \% =\cfrac{40}{100} = {40}\div 50. Write the
numbers in the new form. If youre comparing the numbers, go to Step 4. \cfrac{2}{5}=0.40=0.4 40 \%=\cfrac{40}{100} = 0.4 You are not comparing the numbers to decimal.
numbers. Convert the numbers to the form you chose. Divide the numerator by the denominator using long division \, \cfrac{2}{9} = 2\div 9 2 \div 9=0. \overline{2} Make the percent by 100 which is the same as moving the decimal point two places to the left. 67\%=\cfrac{67}{100} = 67\div 100 Using the rules of
dividing by powers of ten 67 \div 100=0.67 Write the numbers, so you do not have to go to Step 4. \cfrac{2}{9} = 0.\overline{2} rounded to the numbers in order from least to greatest.
cfrac\{1\}\{2\}\, , \; 0.24,33\\%, \; \cfrac\{7\}\{20\}\ Choose a form (fraction, decimal, percentage). Change \, \cfrac\{1\}\{2}\, \ and \, \cfrac\{7\}\{20}\, \so they have a denominator of 100. \cfrac\{1}\{2}=\cfrac\{1}\{2}\, \times \, 50\{2\, \times \}
50=\cfrac\{50\}\{100\}\ \cfrac<math>\{7\}\{20\}=\cfrac\{35\}\{100\}\ \cfrac\{33\}\{100\}\ \cfrac\{33\}\ \cfrac\{33\}\{100\}\ \cfrac\{33\}\{100\}\ \cfrac
numbers in order from greatest to least. 45\%, \; 0.32, \; \cfrac\{1\}\{4\}\, , \; \cfrac\{1\}\{4\}\, \, \; \cfrac\{1\}\{4\}\, \, \times \, 25\}\{4\}\, \, \times \, 25\}\{4\}\, \, \; \cfrac\{1\}\{4\}\, \, \cfrac\{1\}\{4\}\, \, \cfrac\{1\}\{4\}\, \, \cfrac\{1\}\{4\}\, \, \cfrac\{1\}\{4\}\, \, \cfrac\{1\}\{4\}\, \, \cfrac\{1\}\{4\}\, \cfrac\{1\}\, \cfrac
 times \, 25 =\cfrac\{25\}\{100\} \ cfrac<math>\{2\}\{5\} \, times \, 20\}=\ times \, 20\} = 
0.18 \times 100=18 \; \rightarrow \; 18 \% Write the numbers in the correct order. The numbers in the numbers 
45 \%, \, \cfrac{2}{5} \, , \, 0.32, \, \cfrac{1}{4} \, , \, 0.18 Write the numbers in order from least to greatest. 78 \%, \; 0.9, \; \cfrac{2}{3} \, , \; 61 \% Choose a form (fraction, decimal, percentage). Change all the numbers to decimals. Convert the numbers to the form you chose. Divide the numerator by the denominator using long division, \
\color{c}{2}{3}\ \, is 2 \div 3 2 \d
powers of ten, 78 \div 100 = 0.78 61 \%=\cfrac{61}{100}=61 \div 100 = 0.61 \Write the numbers in the new form. If youre comparing the numbers in the number
order. The numbers in order from least to greatest are: 0.61, \; 0.78, \; 0.9 Use visual models so students can see the connections, decimals, and percentages. When first comparing fractions, decimals, and percentages, start by first converting the numbers into either
 fractions with a denominator of 100 or percentages. It is usually the easiest way for students to compare the numbers. Long division is useful when converting fractions and percent worksheets, and percent worksheets have their place, but using strategies to
develop conceptual understanding is more meaningful to your learners. Not remembering the definition of a percent which is a fraction over 100, which is useful when comparing fractions, decimals, and percents can be written as a fraction over 100. All percents can be written as a fraction over 100, which is useful when comparing fractions, decimals, and percents can be written as a fraction over 100.
\bf{100} when comparing fractions, decimals, and percentsFor example, when converting 0.7 to a fraction, leave it as is \, \cfrac{70}{10}. Writing the numbers in ascending order means writing them from least to greatest. Writing the numbers in
descending order means writing them from greatest to least. Original valuesNot giving the final answer in the values original form. For example, after converted numbers and not the converted numbers and not the converted numbers. \cfrac{5}{100} = 5\% The definition of a
percent is a fraction of 100. So, any fraction that has a denominator of 100 can be written as a percent, where the numerator as the percent by writing the numerator as the percent, where the numerator of 100 can be written as a percent, where the numerator
represents the percent. 0.200=20\%=\cfrac{2}{100} \, which means 2\% as a fraction is \, \cfrac{2}{100} \, and 0.02 as a fraction is \, \cfrac{2}{100} \, which means 2\% as a fraction is \, \cfrac{2}{100} = 0.02 \cfrac{4}{5} \; \; \cfrac{4}{5} = 4\div 5 = 0.8 0.8 as a percent is 80
\% because you can multiply 0.8 \times 100 = 80 0.5 is not correct, because 0.5 < 0.8 \ \big|(\cfrac{4}{5}\, \bigr) 80\%\; \big|(\cfrac{4}{5}\, \bigr) 0.3, \; \cfrac{31}{100}\, , \; 32\% 32\%, \;
\cfrac{31}{100} \, , \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32 \%, \; 0.3 32
least to greatest: 30\%, \; 31\%, \; 32\% \; \32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%, \; 32\%,
nearest hundredth is 0.78 . 70 \% is \, \cfrac{70}{100} = 70\div 100 = 0.70 The numbers in descending order are: 0.79, \; 0.78, \; 0.79, \; 0.78, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \; 0.79, \
convert a repeating decimal into a fraction. Step-by-step guide: Repeating decimal number to a percent? Yes, when changing a decimal number to a percent you can move the decimal point two places to the right. This is because from the patterns
you learned from multiplying by powers of 10, multiplying by 100 is the same as moving the decimal point two places to the right. Can you always move the decimal point two decimal places left when converting a percent to a decimal? Yes, using the rules for dividing by
 powers of ten you can always move the decimal point two decimal places to the left when dividing by 100. 65 \%=\cfrac{65}{100}=65\div 100 = 0.65 Can you convert improper fractions to percents. For example, \cfrac{5}{4} can be converted
students through high-quality, online one-on-one math tutoring delivered by subject experts. Each week, our tutors support thousands of students who are at risk of not meeting their grade-level expectations, and help accelerate their progress and boost their confidence. Find out how we can help your students achieve success with our math tutoring
programs. We use essential and non-essential cookies to improve the experience on our website. Please read our Cookies Policy for information on how we use cookies Policy Download Article Download Article Converting numbers between percents, fractions, and decimals is
a necessary basic math skill. The concepts are quite simple once you learn them. Not only will knowing how to convert small numbers help you on your test, but it is also useful for financial calculations. 1Move the decimal point comes at the
end of the last number. For example, envision that 75% actually looks like 75.0%. Moving the decimal point two places to the left converts to .753.1% converts to .0310.5% converts to .0310.5% converts to 0.0052Express the percent as a fraction of 100. Writing a
number as a fraction of 100 is simply another way to write a percent. The number of the fraction and 100 becomes the denominator. Simplify, look for the highest number that goes into 36 and 100. In this case, that would become the numerator of the fraction and 100 becomes the denominator.
4.Determine how many times 4 goes into 36 and 100. When you simplify, the answer would be 9/25. To check that youve converted to a decimal or fraction, the%
 sign is no longer appropriate. Remember, percent just means per one hundred, so if you forget to remove the percent sign after converting, your answer will be off by one hundred.[4] Advertisement 1Multiply the decimal by 100 to change it to a percent. Another way of saying this is to move the decimal point two places to the right. A percent just
the decimal point as many places to the right as you have decimals. This number is now the numerator of the fraction at the end.[7] For example: 0.32 has two decimal places. Move the decimal two places to the right and divide by 100: 32/100.
With a common factor of 4, the fraction simplifies to 8/25. Another example: 0.8 only has one decimal place. Move the decimal one place to the right and divide out the fraction and make sure it equals your original decimal: 8/25 = 0.32.3 Change a
repeating decimal into a fraction. A repeating decimal is one that has a sequence of numbers that continually repeating decimals (13 is repeating decimals there are 2 repeating decimals (13 is repeating decimals). Determine how many repeating decimals there are 2 repeating decimals (13 is repeating decimals).
example, 0.131313... is multiplied by 100 (10 to the power of 2) and we get 13.131313... To determine the numerator (top number), subtract out the repeating portion of the decimal. For example, 13.131313... = 13, so the numerator is 13.[9]To determine the denominator (lower number), subtract 1 from the number you multiplied with.
 When you divide them, you have to decide how many decimal places you want to give in your answer. Oftentimes, the standard is two places. Remember up. For example, 0.145 rounds to 0.15. For example: The fraction 5/17 yields the decimal
8 would give you .50, then multiplying that number by 100 would give you 50. Adding a percent sign gives you your final answer by 50%. Additional Examples: 3/10 = 0.30 * 100 = 30%5/8 = 0.625 * 100 = 62.5% Advertisement Add New Question How do I convert 27 over 56 into a fraction? "27 over 56" is already a fraction: 27/56. Question
What is 3 and 1 over 2 as a decimal? 3 = 3.5. Question What is 62.5 as a fraction? 62.5 (or the mixed number 62) is the equivalent of the improper fraction Advertisement Paper and pencilA standard calculator Thanks for reading our
article! If youd like to learn more about math, check out our in-depth interview with David Jia. This article was co-authored by David Jia. David Jia is an Academic Tutor and the Founder of LA Math Tutoring, a private tutoring company based in Los Angeles, California. With over 10 years of teaching experience, David works with students of all ages
and grades in various subjects, as well as college admissions counseling and test preparation for the SAT, ACT, ISEE, and more. After attaining a perfect 800 math score and a 690 English score on the SAT, David was awarded the Dickinson Scholarship from the University of Miami, where he graduated with a Bachelors degree in Business
 Administration. Additionally, David has worked as an instructor for online videos for textbook companies such as Larson Texts, Big Ideas Learning, and Big Ideas Math. This article has been viewed 525,982 times. Co-authors: 98 Updated: March 10, 2025 Views:525,982 times.
for creating a page that has been read 525,982 times. "It helped me understand how to convert fraction and an improper fraction is same. There two types of
processes in converting a fraction into percentage. Type 1: Denominator can be convertible to 100 using multiplication. Type 2: Denominator can not be convertible to 100 using multiplication, we can convert the given proper fraction to percent as explained in the
example given below. If denominator of the improper fraction is convertible to 100 using multiplication, we can convert the given improper fraction is not convertible to 100 using multiplication, we have to convert the given proper fraction into decimal
 following fractions to percentages. Problem 1:3/4Solution: To convert any fraction to percentage, make the denominator as 100 using multiplication by 4.3/4 = (3 25) / (4 25) = 75 / 100 = 75% Problem 2:10/3Solution: In the fraction 10/3, the denominator is 3 which
can not be converted into 100 or 1000 or 1000 or 1000 or 1000 using multiplication. So the given fraction can be converted into decimal using long division. Then, we have 10/3 3.3333 (approximately) Multiply 3.3333 by 100 to convert at to percentage.
using multiplication. In the fraction 5/8, the denominator is 8 which which can not be converted into 1000 using multiplication. But 8 can be converted into 1000 using multiplication. To convert the given
mixed number to percentage, first convert the given mixed number into improper fraction. In the fraction 25/8, the denominator is 8 which can not be converted into 100 using multiplication. But 8 can be converted to 1000 using
multiplication of 125. Then, 25/8 = (25 125) / (8 125) = 3125 / 1000 = 3.125 Multiply 3.125 by 100 to convert it to percentage of the pizza does not have chilli?b) What percentage of the pizza does not have chilli?c) What
percentage of the pizza does have chilli? Solution: a) Total number of squares = 20 Number of squares in which we have chillis = 4 Number of squares that we doesn't have chillis = 4 Number of squares that we doesn't have chillis = 4 Number of squares in which we have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 4 Number of squares in which we have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 4 Number of squares in which we have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fractions of pizza does not have chillis = 20 - 4 = 16 The fracti
 fraction by 100\% = (4/5) \times 100\% = 4 \times 20\% = 80\%c) Percentage of pizza does have chilliThe total quantity can be considered as 100\%, = (100 - 80)\% = 20\%Problem 6: A bus has 25 seats. 10 seats are occupied?c) What percentage of the seats are occupied?c) What percentage of the seats are occupied?c) and the seats are occupied?c) are considered as 100\%, = (100 - 80)\% = 20\%Problem 6: A bus has 25 seats. 10 seats are occupied?c) What percentage of the seats are occupied?c) are considered as 100\%, = (100 - 80)\% = 20\%Problem 6: A bus has 25 seats. 10 seats are occupied?c) are considered as 100\%, = (100 - 80)\% = 20\%Problem 6: A bus has 25 seats. 10 seats are occupied?c) are considered as 100\%, = (100 - 80)\% = 20\%Problem 6: A bus has 25 seats. 10 seats are occupied?c) are considered as 100\%, = (100 - 80)\% = 20\%Problem 6: A bus has 25 seats. 10 seats are occupied?c) are considered as 100\%, = (100 - 80)\% = 20\%Problem 6: A bus has 25 seats. 10 seats are occupied?c) are considered as 100\%, = (100 - 80)\% = 20\%Problem 6: A bus has 25 seats. 10 seats are occupied?c) are considered as 100\%, = (100 - 80)\% = 20\%Problem 6: A bus has 25 seats. 10 seats are occupied?c) are considered as 100\%.
 unoccupied? Solution: Total number of seats = 25 Number of seats are occupied = 10 Number of seats are occupied = 10 Number of seats are unoccupied = (100 - 15a). Fraction of the seats are occupied = 25 - 10 = 15a).
40)%= 60%A window consists of 16 panes of glass as shown. The outer 12 panes are coloured blue.a) What fraction of the window is blue?c) What percentage of the 
we get= 3/4b) Percentage of window which is blue := (3/4) x 100%= 3 x 25%= 75%c) Percentage of window which is not blue= (100 - 75)%= 25% Kindly mail your feedback tov4formath@gmail.comWe always appreciate your feedback tov4formath@gmail.comWe always app
percents occur, it is very crucial that you understand what a percent into a decimal, you need to divide by 100. This is just similar to moving the decimal point to two places to the
 left. How do You Convert a Percent to a Decimal Wondering how do you change a percent to a decimal? Percent to decimal conversion is not very difficult. That being said, for conversion of percent to decimal number, the percent age must be divided by 100:1\% = 1/100 = 0.018\% = 8/100 = 0.0810\% = 10/100 = 0.125\% = 25/100 = 0.2540\% = 40/100
 = 0.4050% = 50/100 = 0.5100% = 100/100 = 4.5For example on How to Calculate Percentage to DecimalExample: Lets say there are 100 employees hired to work on a construction site. If only 57 are working on the
decimals, percents, and fractions are closely related and can be used to depict the same information. How to Turn a Percent Into a DecimalMost interest rates are quoted and marketed with respect to a percentage. But if you want to do calculations with the help of those numbers, youll require converting them to decimal form. The easiest way to do
this is by dividing the number by 100. Example: To convert 92% to decimal format, divide 92 by 100, and we get: 92 100 = .92 Move the Decimal format is by moving the decimal format to two places to the left. If you don't really see a decimal, just think that its at the end, or far
right side, of the number. Think that the decimal joint before the 9.92% = .92After you do this a couple of times, it will become natural, and youll be able to do it immediately in your head. Even with more complex numbers, you
 would still require to move the decimal to over two places. For better understanding, refer to a few more examples:100% = 2.532.478% = .007Solved Examples:Convert 0.10% to a fraction. Solution:1. Divide the percent by 100 in order to obtain a fraction. Simplify the fraction nowNote: .10% = .010 = 10/1000 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .010 = .0
1/100Example: Suppose that your bank pays a 2.50% annual percentage generated (APY) on your savings account. How much will you earn over one year (12months) if you deposit Rs. 100?To determine, we will require converting the interest rate to decimal and multiplying the outcome by the amount of deposit.2.50 100 = .02502.50 * Rs. 100 =
just different ways of showing the same value: A Half can be written... ... as a fraction: 12 ... as a decimal: 0.5 ... as a percentage: 50% A Quarter can be written... ... as a fraction: 14 ... as a decimal: 0.5 ... as a percentage: 50% A Quarter can be written... ... as a fraction: 14 ... as a fraction: 15 ... as a fraction: 16 ... as a fraction: 16 ... as a fraction: 16 ... as a fraction: 17 ... as a fraction: 18 ... as a fraction: 19 ... as a fraction: 10 ... as a fraction: 1
 sign. An easy way to divide by 100 is to move the decimal point 2 places to the left: From Percent To Decimal move the decimal point 2 places to the left Don't forget to remove the % sign! From Decimal to Percent To Convert from Decimal point 2 places to the right:
From Decimal To Percent move the decimal point 2 places to the right Don't forget to add the % sign! From Fraction to Decimal To convert a decimal divide the top number: Divide 2 by 5: 2 5 = 0.4 Answer: 25 = 0.4 To convert a decimal to a fraction needs a little more work. First, write down the decimal "over" the
number 1:0.751Multiply top and bottom by 10 for every number, and so on). In this case multiply by 100:0.75 1001 100Calculate:75100 Then Simplify the fraction: 34 To convert a fraction to a percentage divide the top number by the bottom number, then multiply the result by 100% First
divide 3 by 8: 3 8 = 0.375 Then multiply by 100%: 0.375 100% = 37.5% Answer: 38 = 37.5% To convert to a decimal (divide by 100), then use the steps for convert to a decimal (divide by 100), then use the steps for convert to a decimal (divide by 100), then use the steps for convert to a decimal (divide by 100).
1:0.81Multiply top and bottom by 10 for every numberafter the decimal point (10 for 1 number, 100 for 2 numbers, and so on):In this case multiply by 10:0.8 101 10Calculate:810Then Simplify the fraction: 45 881, 1305,882, 1306,883, 1307,884, 1308,885, 1309,886, 1310 Copyright 2025 Rod Pierce Download Article Converting
numbers between percents, fractions, and decimals is a necessary basic math skill. The concepts are quite simple once you learn them. Not only will knowing how to convert small numbers help you on your test, but it is also useful for financial calculations. 1Move the decimal point two places to the left to convert a percent to a decimal. Unless
otherwise noted, in a percent, the decimal point comes at the end of the last number. For example, envision that 75% actually looks like 75.0%. Moving the decimal point two places to the left converts to .0310.5% conver
0.0052Express the percent as a fraction of 100. Writing a number as a fraction of 100 is simply another way to write a percent. The number that
 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. When you simplify, the answer would be 9/25. To check that youve converted correctly, divide 9 by 25 (0.36) and multiply by 100 (36%). This number should equal your original percent. Advertisement 3Remove the percent sign. Once the percent has
 been converted to a decimal or fraction, the% sign is no longer appropriate. Remember, percent just means per one hundred, so if you forget to remove the percent sign after converting, your answer will be off by one hundred. [4] Advertisement 1Multiply the decimal by 100 to change it to a percent. Another way of saying this is to move the decimal
point two places to the right. A percent just means per one hundred, so the decimal becomes 92%, 0.07 becomes 125%, 0.083 becomes 8.3%. 2Convert a terminating decimal to a fraction. A
 terminating decimal is one that does not repeat. Move the decimal point as many places to the right as you have decimals in the original number. Simplify the fraction at the end.[7]For example: 0.32 has two decimal places. Move the
decimal two places to the right and divide by 100: 32/100. With a common factor of 4, the fraction simplifies to 8/25. Another example: 0.8 only has one decimal place. Move the decimal one place to the right and divide by 10: 8/10. With a common factor of 2, the fraction simplifies to 4/5. To check your work, simply divide out the fraction and make sure
it equals your original decimal: 8/25 = 0.32.3 Change a repeating decimal into a fraction. A repeating decimal is one that has a sequence of number is 0.131313... there are 2 repeating decimal by
 10n, where n is the number of repeating decimals.[8]For example, 0.131313... is multiplied by 100 (10 to the power of 2) and we get 13.131313... - 0.131313... = 13, so the numerator is 13.[9]To determine the denominator (lower of 2) and we get 13.131313...
number), subtract 1 from the number you multiplied by 100, so the denominator is 100 - 1 = 99. The final fraction for 0.131313... becomes 123/9990.142857... becomes 142857/9999991f necessary, take the fraction to the lowest term
For example, 142857/99999 becomes 1/7. Advertisement 1Divide the numerator by the denominator to change the fraction at decimal 0.5.2Determine the number of decimal number of decimal 0.5.2Determine the number of decimal 0.5.2Determin
 points. Many numbers dont divide evenly into each other. When you divide them, you have to decide how many decimal places you want to give in your answer. Oftentimes, the standard is two places. Remember the rules of rounding when truncating a fraction: if the next number is a 5, round the previous number up. For example, 0.145 rounds to
0.15. For example: The fraction 5/17 yields the decimal 0.2941176470588The final decimal by 100 to change to a percent. Just as you did to convert the fraction to a decimal, divide the numerator by the denominator.[11] Multiply the resulting decimal by 100 and add a percent sign
to finish the conversion.[12]If you had 4/8, dividing 4 by 8 would give you 50. Additional Examples:3/10 = 0.30 * 100 = 30%5/8 = 0.625 * 100 = 62.5% Advertisement Add New Question Question How do I convert 27 over 56 into a
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teaching experience, David works with students of all ages and grades in various subjects, as well as college admissions counseling and test preparation for the SAT, David was awarded the Dickinson Scholarship from the University of Miami, where he
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percents, fractions, and decimals is a necessary basic math skill. The concepts are quite simple once you learn them. Not only will knowing how to convert small numbers help you on your test, but it is also useful for financial calculations. 1 Move the decimal point two places to the left to convert a percent to a decimal. Unless otherwise noted, in a
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percent as a fraction of 100. Writing a number as a fraction of 100 is simply another way to write a percent becomes the number of the percent becomes the number of the fraction and 100 becomes the denominator. Simplify, look for the highest number that goes into 36 and
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example: The fraction 5/17 yields the decimal 0.2941176470588The final decimal by 100 to change to a percent. Just as you did to convert the fraction and then multiply by 100 to change to a percent sign to finish
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 experience, David works with students of all ages and grades in various subjects, as well as college admissions counseling and test preparation for the SAT, David was awarded the Dickinson Scholarship from the University of Miami, where he
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percentages is a key skill in GCSE Maths. This guide will cover the steps and methods required to perform these conversions, with examples to help you practice and understand the processes. Converting Decimals to Fractions and Percentages Decimals to Fractions and Percentages Decimals to Fractions. It
the decimal has one decimal place (e.g., 0.5), place it over 10 (i.e., $\frac{75}{100}$). If the decimal has two decimal places (e.g., 0.75), place it over 100 (i.e., $\frac{75}{100}$). Simplify the fraction to its simplest form by dividing both the numerator and denominator by their greatest common divisor (GCD). Example 1: Convert 0.4
to a fraction. Write 0.4 as $\frac{4}{10}$. Simplify the fraction: divide both the numerator and denominator by 2 to get $\frac{3}{5}$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 as $\frac{6}{10}$$. Example 2: Convert 0.6 to a fraction. Write 0.6 to a fraction. Writ
percentage, simply multiply the decimal by 100 and add the percentage symbol (%). Example 1: Convert 0.5 to a percentage. Multiply 0.75 by 100: $0.75\times 100 = 75\$. The answer is 75\%. Converting Fractions to Decimals and
PercentagesFractions to DecimalsTo convert a fraction to a decimal. Divide 7 by 8: $7\div 8 = 0.875$. The answer is 0.75. Example 2: Convert $\frac{7}{8}$ to a decimal. Divide 7 by 8: $7\div 8 = 0.875$. The answer is
0.875. Fractions to PercentagesTo convert a fraction to a percentage. Convert \frac{1}{2} to decimal (as shown above). Multiply 0.5 by 100: 0.5 to decimal (as shown above). Multiply 0.5 by 100: 0.5 to decimal (as shown above). Multiply the decimal by 100 to get the percentage. Convert \frac{1}{2} to a percentage. Convert \frac{1}{2} to a percentage. Convert \frac{1}{2} to decimal (as shown above). Multiply 0.5 by 100: 0.5 times 100 = 0.5
Convert $\frac{3}{5}$ to a percentage Convert $\frac{3}{5}$ to a percentage to Decimals and FractionsPercentages to Decimals 100 = 60$. Multiply 0.6 by 100 or simply move the decimal point two places to the
left. Example 1: Convert 45% to a decimal. Divide 45 by 100: $45 \times 100 = 0.45$. The answer is 0.025. Percentages to Fractions To convert a percentage to a fraction: Write the percentage as a fraction over 100. Simplify the fraction, if
possible. Example 1: Convert 60% to a fraction. Write 60% as fac{3}{5}. Example 2: Convert 25% as fac{3}{5}. Example 2: Convert 25% as fac{3}{5}. Example 2: Convert 25% as fac{3}{5}.
 \{100\} = \frac{1}{4}. The answer is \frac{1}{4}. The answer is \frac{1}{4}. Summary of Conversion Methods Conversion Method Decimal to Fraction Write the decimal by 100 and add a percentage sign. Fraction to Decimal Divide the numerator by the denominator. Fraction to
Percentage Convert the fraction to a decimal point two places left. Percentage to Fraction Write the percentage to Fraction will be able to confidently tackle questions involving fractions, decimals
and percentages in your GCSE Maths exams. Test your knowledge of Converting Between Fractions, decimals, and percentsWhen we talk, we often use different words to express the same thing. For example, we could
describe the same car as tiny or little or small. All of these words mean the car is not big. Fractions, decimals, and percents are like the words tiny, little, and small. They're all just different ways of expressing parts of a whole. In this image, each measuring cup has the same amount of juice in it. But we've expressed this amount in three ways: as a
fraction, as a percent, and as a decimal. Since they're expressing the same amount, we know that 1/2, 50%, and 0.5 are equal to each other. For example, it's much easier to add 1/4 and 0.5 if you turn 0.5 into a fraction.
Learning how to convert fractions, decimals, and percents will also help you as you learn more advanced math. Fractions and decimals and fractions can help you in math. For example, it's easier to subtract 1/6 from 0.52 if you turn
1/6 into a decimal first. Converting a fraction into a decimal. We'll be using a math skill, you've already learned: long division. To refresh your memory on this skill, you can review our Long Division lesson. Click through the slideshow to learn how to convert a fraction into a decimal. Let's see how we can convert 1/4
into a decimal. To convert a fraction into a decimal, we'll just divide the numerator... To convert a fraction to a decimal point and a zero after the 1. We'll also add a decimal point after the 0 on top. Now we
can divide 10 by 4.10 divided by 4 equals 2. Now we'll multiply 4 by 2.4 times 2 equals 8. So we'll subtract 8 from 10.10 minus 8 equals 2. Since 2 is greater than 0, we're not finished dividing yet. We'll add another 0 after the decimal point and bring it down. Now we'll divided by 4 equals 5. Now we'll multiply 4 by 2.4 times 5 equals 20. When
we subtract 20 from 20, we get 0. The 0 means we're done dividing.1 divided by 4 equals 0.25. So 1/4 is equal to 0.25. Try This! Convert a decimal into a fraction. Click through the slideshow to see how to convert a decimal into a
fraction. We're going to rewrite 0.85 as a fraction. To convert a decimal into a fraction, we'll use place value of the last number to the
right. In 0.85, 5 is in the hundredths place. This means our decimal is equal to 85 hundredths can also be written as 85/100. Now we have our fraction. But it's always a good idea to reduce fractions when we canit makes them easier to read. To reduce, we need to find the largest number that will go evenly into both 85 and 100.5 is the
largest number that goes evenly into 85 and 100. So we'll divide both parts of our fraction by 5. First we'll divide the numerator. 85 divided by 5 equals 17. Now we'll divide the denominator. 100 divided by 5 equals 17. Now we'll divide the numerator. 85 divided by 5 equals 20. This means 85/100 can be reduced to 17/20. So 0.85 is equal to 17/20. Reducing a fraction may seem unnecessary when you're
converting a decimal. But it's important if you're going to use the fraction in a math problem. If you're adding two fractions, you may even need to reduce or change both fractions so they have a common denominator. Try This! Convert these decimals into fractions. Be sure to reduce each fraction to its simplest form! Percents and decimals Knowing
how to convert percents and decimals will help you calculate things like sales tax and discounts. To learn how, check out our Percentages in Real Life lesson. Converting a percent into a decimal converting a percent into a decimal surprisingly easy. It only takes a few simple steps. Click through the slideshow to learn how to convert a percent into a
decimal. We're going to convert 17% into a decimal point two spaces to the left. We'll take the percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent to a decimal point two spaces to the left. We'll move the decimal point two spaces to the left. We've converted our percent to a decimal point two spaces to the left. We've converted our percent to a decimal point two spaces to the left. We've converted our percent to a decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the decimal point two spaces to the left. We've converted our percent sign... First, we'll move the left. We've converted our percent sign... First, we've converted our percent sign... First, we've converted our percent sign... First, 
example. This time we'll turn 78% into a decimal. First, we'll replace the percent sign with a decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the decimal point two spaces to the left. Then we'll move the left. Then we'll move the left. Then 
decimal point. Then, we'll move the decimal point two spaces to the left. Notice there is an extra space next to the 8. We can't just leave an open space with nothing in it. Since zero equals nothing, we'll replace the space with zero. Notice there is an extra space next to the 8. We can't just leave
an open space with nothing in it. Since zero equals nothing, we'll replace the space with zero.8% is equal to .08Why does this work? Converting percents into decimals is so easy that you may feel like you've missed something. But don't worryit really is that simple! Here's why the method we showed you works. When we turn a percent into a decimal,
we're actually doing two steps. First, we convert our percent into a fraction. Since all percents are out of 100, we just put the percent over 100, like this:78 = 78/100In the second step, we convert 78/100 into a decimal. You already know this means we'll divide the numerator by the denominator, like this:78 100 = 0.78So why didn't we show you
these steps in the slideshow? Because you can get the answer without them. You know that all percent by 100 to get a decimal, but there's a quick way to do that. Just move the decimal point two spaces to the left! This way, you can get the same answer
with just one easy step. Try This! Convert these percents into decimal into a percent. We'll reverse what you just learned. Let's convert a decimal into a percent. We'll reverse what we did in the last section.
This time, we'll move the decimal point two places to the right. Now we'll replace to the right. We'll nove the decimal point two places to the right. We're finished converting our decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right. We'll nove the decimal point two places to the right.
has three numbers to the right of the decimal point. But we're still going to move the decimal point two spaces to the right. We still have a number to the right. But we're still going to move the decimal point two spaces to the right. But we're still going to move the decimal point and add a percent sign
at the end of the number. So 0.635 is equal to 63.5%. Try This! Calculate these decimals as percents and fractions Knowing how to write percents as fractions and vice versa can help you in your everyday life. For example, let's say you earned a grade of 80% on a test. You can convert 80% into a fraction to find out how many of your answers
were correct. When your teacher grades the test, she may do the opposite. If a student got 8 out of 10 questions right, the teacher can converting a percent into a fraction, it helps to remember that percents are always out of 100. You can practice
with percents in our Introduction to Percent ages lesson. Click through the slideshow to learn how to convert a percent into a fraction. In Introduction to Percents, you learned that all percents are out of 100. In fact, that's what the word percent means. So any percent is equal to itself over 100. In our example
30% is equal to 30/100. Now we've converted 30% into a fraction, but we still need to reduce it. 10 is the largest number that goes evenly into 30 and 100. So we can divide by 10 equals 3. Now we'll divide the denominator. 100 divided by 10 equals 10. So 30% is
equal to 3/10. Try This! Write these percentages as fraction uses two of the skills you just learned: writing a fraction into a percent. Let's see how we can use these skills to convert a fraction into a
percent.Click through the slideshow to learn how to convert a fraction into a decimal, we'll divide the numerator by the denominator.3 divided by 6 equals 0.5. We've turned our fraction into a decimal. Now we'll turn the decimal into a percent by moving the decimal
point two spaces to the right. Now we'll turn the decimal point into a percent sign. 0.50 is equal to 50%. Try This! Convert these fractions into percents. Decimals, Fractions and Percentages are just different ways of showing the same
value: A Half can be written... ... as a decimal: 0.25 ... as a decimal: 0.5 ... as a decimal: 0.5 ... as a decimal: 0.25 ... as a decimal: 0.25 ... as a decimal: 0.25 ... as a decimal: 0.5 ... as a decimal: 0.5 ... as a decimal: 0.25 ... as a decimal: 0.25 ... as a decimal: 0.5 ... as a decimal: 0.5 ... as a decimal: 0.25 ... as a decimal: 0
Percent Decimal Fraction 1% 0.01 1/100 5% 0.05 1/20 10% 0.1 1/10 12% 0.125 1/8 20% 0.2 1/5 25% 0.25 1/4 331/3% 0.333... 1/3 50% 0.5 1/2 75% 0.75 3/4 80% 0.8 4/5 90% 0.9 9/100 100% 1 125% 1.25 5/4 150% 1.5 3/2 200% 2 To convert from percent to decimal divide by 100 and remove the % sign. An easy way to divide by 100 is
to move the decimal point 2 places to the left: From Percent To Decimal move the decimal point 2 places to the left Don't forget to remove the w sign! From Decimal to Percent To convert from Decimal to Percent move the
decimal point 2 places to the right Don't forget to add the % sign! From Fraction to Decimal To convert a decimal divide the top number by the bottom number: Divide 2 by 5: 2 5 = 0.4 Answer: 25 = 0.4 To convert a decimal divide the top number by the bottom number by the bottom number 1:0.751Multiply top and
bottom by 10 for every number afterthe decimal point (10 for 1 number, 100 for 2 numbers, and so on). In this case multiply by 100:0.75 1001 100Calculate:75100 Then Simplify the fraction to a percentage divide the top number by the bottom number, then multiply the result by 100% First divide 3 by 8: 3 8 = 0.375 Then
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multiply by 100%: 0.375 100% = 37.5% Answer: 38 = 37.5% To convert to a decimal (eso/100); 0.8Write down the decimal "over" the number 1:0.81Multiply top and bottom by 10 for every number after the decimal point (10 for 1 number, 100 for 2 numbers, and so on): In this case multiply by 10:0.8 101 10Calculate:810Then Simplify the fractions. 45 881, 1305,882, 1306,883, 1307,884, 1308,885, 1309,886, 1310 Copyright 2025 Rod Pierce Download Article Download Article Download Article Converting numbers between percents, fractions, and decimals is a necessary basic math skill. The concepts are quite simple once you learn them. Not only will knowing how to convert small numbers help you on your test, but it is also useful for financial calculations. 1Move the decimal point two places to the left to converts to .0310.5% converts to .030.5% converts to .030.5% converts to .030.5% converts to .0052Express the percent as a fraction of 100.

Writing a number as a fraction of 100 is simply another way to write a percent. The number of the percent becomes the numerator of the fraction to its lowest form.[2]Example: 36% turns to 36/100.[3]To simplify, look for the highest number that goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. When you simplify, the answer would be 9/25. To check that youve converted correctly, divide 9 by 25 (0.36) and multiply by 100 (36%). This number should equal your original percent. Advertisement 3Remove the percent sign. Once the percent has been converted to a decimal or fraction, the% sign is no longer appropriate. Remember, percent just means per one hundred, so if you forget to remove the percent sign after converting, your answer will be off by one hundred. [4] Advertisement 1Multiply the decimal by 100 to change it to a percent. Another way of saying this is to move the decimal point two places to the right. A percent just means per one hundred, so the decimal becomes per one hundred after being multiplied.[5] Dont forget to add the percent sign after multiplying.[6] Examples include: 0.32 becomes 32%, 0.07 becomes 7%, 1.25 becomes 125%, 0.083 becomes 8.3%.2Convert a terminating decimal to a fraction. A terminating decimal is one that does not repeat. Move the decimal point as many places to the right as you have decimals. This number is now the numerator of the fraction at the end.[7]For example: 0.32 has two decimal places. Move the decimal two places to the right and divide by 100: 32/100. With a common factor of 4, the fraction simplifies to 8/25. Another example: 0.8 only has one decimal place. Move the decimal one place to the right and divide by 10: 8/10. With a common factor of 2, the fraction simplifies to 4/5. To check your work, simply divide out the fraction and make sure it equals your original decimal: 8/25 = 0.32.3 Change a repeating decimal into a fraction. A repeating decimal is one that has a sequence of numbers that continually repeating decimals (13 is repeating decimals there are 2 repeating decimals (13 is repeating decimals). Determine how many repeating decimals (13 is repeating decimals). example, 0.131313... is multiplied by 100 (10 to the power of 2) and we get 13.131313... To determine the numerator (top number), subtract out the repeating portion of the decimal. For example, 13.131313... = 13, so the numerator is 13.[9]To determine the denominator (lower number), subtract 1 from the number you multiplied with. For example, 0.131313... was multiplied by 100, so the denominator is 100 - 1 = 99. The final fraction for 0.131313 is 13/994 dditional Examples: 0.333... becomes 142857/9999991 necessary, take the fraction to the lowest term. For example, 142857/999999 becomes 1/7. Advertisement 1Divide the numerator by the denominator to change the fraction to a decimal. Interpret the fraction bar to mean "divided by". This means for any fraction x/y, it is the same as saying x divided by y.[10] For example: The fraction 4/8 yields the decimal 0.5.2Determine the number of decimal points. Many numbers dont divide evenly into each other. When you divide them, you have to decide how many decimal places you want to give in your answer. Oftentimes, the standard is two places. Remember up. For example, 0.145 rounds to 0.15. For example: The fraction 5/17 yields the decimal 0.2941176470588The final decimal can be written simply as 0.29.3Divide the fraction and then multiply by 100 to change to a percent. Just as you did to convert the fraction to a decimal, divide the numerator by the denominator.[11] Multiply the resulting decimal by 100 and add a percent sign to finish the conversion.[12]If you had 4/8, dividing 4 by 8 would give you .50, then multiplying that number by 100 would give you 50. Additional Examples: 3/10 = 0.30 * 100 = 30%5/8 = 0.625 * 100 = 62.5% Advertisement Add New Question How do I convert 27 over 56 into a fraction? "27 over 56" is already a fraction: 27/56. Question What is 3 and 1 over 2 as a decimal? 3 = 3.5. Question What is 62.5 as a fraction? 62.5 (or the mixed number 62) is the equivalent of the improper fraction Advertisement Paper and pencilA standard calculator Thanks for reading our factor of the improper fraction? article! If youd like to learn more about math, check out our in-depth interview with David Jia. This article was co-authored by David Jia. David Jia is an Academic Tutor and the Founder of LA Math Tutoring, a private tutoring company based in Los Angeles, California. With over 10 years of teaching experience, David works with students of all ages and grades in various subjects, as well as college admissions counseling and test preparation for the SAT, ACT, ISEE, and more. After attaining a perfect 800 math score and a 690 English score on the SAT, David was awarded the Dickinson Scholarship from the University of Miami, where he graduated with a Bachelors degree in Business Administration. Additionally, David has worked as an instructor for online videos for textbook companies such as Larson Texts, Big Ideas Learning, and Big Ideas Math. This article has been viewed 525,982 times. Co-authors: 98 Updated: March 10, 2025 Views:525,982 times. for creating a page that has been read 525,982 times. "It helped me understand how to convert fractions, percent and decimals to scientific notation. What helped me the most was the given examples."..." more Share your story GCSEKS3Level 1-3AQACambridge iGCSEEdexcelEdexcel iGCSEOCRWJEC In shops, you will frequently see discounts table shows some important common conversions between fractions, decimals and percentages that you should remember. Level 1-3GCSEKS3AQAEdexcelOCRWJECCambridge iGCSEEdexcel iGCSE Convertfractionstodecimals treat the fraction like a division and divide the number on the top by the number on the bottom.e.g. \dfrac{9}{20} = 9 \div 20 = 0.45 Convert decimals divide by 100 (move the decimal point right 2 places). e.g. 0.45 \times 100 = 45\% Level 1-3GCSEKS3AQAEdexcelOCRWJECCambridge iGCSE Convert percentages to decimals divide by 100 (shift the decimal point right 2 places). left 2 places). e.g. 64 \% \div 100 = 0.64Convert decimals to fraction with 1 on the bottom. Then, keep multiplying top and bottom by 10 until the decimal becomes a whole number. Then you can simplify the fraction if needed.e.g. 0.79 = \dfrac{0.79}{1} = \dfrac{7.9}{10} = \dfrac{7.9}{10} = \dfrac{7.9}{10}, so we get 37 \div 100 = 0.37b) Write 0.548 as a percentage.[1 mark]To convert this to a decimal we will divide by 100, so we get 37 \div 100 = 0.37b) Write 0.548 as a percentage.[1 mark]To convert this to a percentage we will multiply by 100, so we get 0.548 \times 100 = 54.8\% Level 1-3GCSEKS3AQAEdexcelOCRWJECCambridge iGCSE a) Write \dfrac{12}{25} as a decimal.[2 marks]Dividing 12 by 25 doesnt sound too pleasant, but there is a way we can change the fraction (before dividing top by bottom) to make life easier. Notice that 25\times 4=100 and dividing by 100 is straightforward. So, if we multiply top and bottom by 4 we get\dfrac $\{4\}$ as a decimal.[2 marks]In this case, there is no nice shortcut. Well just have to divide 11 by 8 in whichever way feels most comfortable here, well go for the bus stop method. Doing this, we get the picture shown above, (click here to revise the bus stop method) and we see that the result is,\dfrac{11}{8} = 1.375 Level 1-3GCSEKS3AQAEdexceloCRWJECCambridge iGCSEEdexcel iGCSE Write 4.56 as a fraction in its simplest form. [2 marks] Any number divided by 1 is equal to itself, so we can write 4.56 {100} $= \frac{4.56}{12}$. Now, if we multiply top and bottom by 100 we get\dfrac $= \frac{4.56}{100}$. Level 1-3GCSEKS3AQAEdexcelOCRWJECCambridge iGCSEEdexcel iGCSE Write 48.1\% as a fraction. [1 mark]Percentages are already out of 100, so 48.1\% = \dfrac $\{48.1\}\{100\}$ Level 1-3GCSEKS3AQAEdexcelOCRWJECCambridge iGCSEEdexcel iGCSE dexcelocration. [1 mark]Percentages are already out of 100, so 48.1\% = \dfrac $\{48.1\}\{100\}$ Then, multiplying top and bottom by 10 (to make the numbers whole) we get 48.1\% = \dfrac $\{48.1\}\{100\}$ Then, multiplying top and bottom by 10 (to make the numbers whole) we get 48.1\% = \dfrac $\{48.1\}\{100\}$ Then, multiplying top and bottom by 10 (to make the numbers whole) we get 48.1\% = \dfrac $\{48.1\}\{100\}$ Then, multiplying top and bottom by 10 (to make the numbers whole) we get 48.1\% = \dfrac $\{48.1\}\{100\}$ Then, multiplying top and bottom by 10 (to make the numbers whole) we get 48.1\% = \dfrac $\{48.1\}\{100\}$ Then, multiplying top and bottom by 10 (to make the numbers whole) we get 48.1\% = \dfrac $\{48.1\}\{100\}$ Then, multiplying top and bottom by 10 (to make the numbers whole) we get 48.1\% = \dfrac $\{48.1\}\{100\}$ Then, multiplying top and bottom by 10 (to make the numbers whole) we get 48.1\% = \dfrac $\{48.1\}\{100\}$ Then, multiplying top and bottom by 10 (to make the numbers whole) we get 48.1\% = \dfrac $\{48.1\}\{100\}$ Then, multiplying top and 10 Then 10 Write \dfrac{4}{5} as a percentage. [1 mark] Firstly, lets convert it to a decimal. Notice that if we times top and bottom by 2, the fraction becomes \dfrac{4}{5} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that if we times 2} = \dfrac{4}{10} = 8\\ Notice that
if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that if we times 2} = \dfrac{10}{10} = 8\\ Notice that 3} = \dfrac{10}{10} = 8\\ Notice that 3} = \dfrac{10}{10} = \dfrac{10}{ fraction with 100 on the denominator, then the value on the top immediately gives you what the fraction would be as a percentage. For example, \dfrac{68}{100}=68\% Level 1-3GCSEKS3AQAEdexcelOCRWJECCambridge iGCSE Fractions Decimals and Percentages Example Questions We can express this percentage as a decimal simply by dividing by 100, 55.4% Save your answers with Gold Standard Education We can express this percentage as a fraction by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, we multiply top and bottom by 10, $dfrac\{16.4\}\{100\}$ To make the numbers whole, $dfrac[16.4]\{100\}$ To make the numbers whole $dfrac[16.4]\{100\}$ To make $dfrac[16.4]\{100\}$ To are no common factors left. So, we find, $dfrac\{41\}\{1,000\}=dfrac\{41\}\{1,00$ answers with Gold Standard Education We can express this decimal as a fraction, $0.256 \ 11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ \dfrac $\{0.256\}\{11\$ To make the numbers whole, we multiply top and bottom by $1000\$ To make the numbers whole, we multiply top and bottom by $1000\$ To make the numbers whole, we multiply top and bottom by $1000\$ To make the numbers whole, we multiply top and bottom by $1000\$ To make the numbers whole, we multiply top and bottom by $1000\$ To make the numbers whole $1000\$ To make the Save your answers with Gold Standard Education A simpler method than dividing by 20 in its current form is to notice that 20 \times 5 = 100 and dividing by 100 is straightforward. So, if we multiply top and bottom by 5 we get, \dfrac{65}{100} = 0.65 Save your answers with Gold Standard Education Fractions Decimals and Percentages Worksheet and Example Questions Decimals, Fraction: 12 ... as a decimal: 0.25 ... as a percentage: 25% Here, have a play with it yourself: numbers/images/ani-frac-num-pct.js Here is a table of commonly used values shown in Percent, Decimal and Fraction 1% 0.01 1/100 5% 0.05 1/2 75% 0.75 3/4 80% 0.8 4/5 90% 0.9 9/10 99% 0.99 99/100 100% 1 125% 1.25 5/4 150% 1.5 3/2 200% 2 To convert from percent to decimal point 2 places to the left Don't forget to remove the % sign! From Decimal to Percent To convert from decimal to percent multiply by 100% An easy way to multiply by 100 is to move the decimal point 2 places to the right. From Decimal To convert a fraction to a decimal divide the top number by the bottom number: Divide 2 by 5: 2 5 = 0.4 Answer: 25 = 0.4 To convert a decimal to a fraction needs a little more work. First, write down the decimal "over" the number 1:0.751 Multiply top and bottom by 10 for every number afterthe decimal point (10 for 1 number, 100 for 2 numbers, and so on). In this case multiply by 100:0.75 1001 100 Calculate:75100 Then Simplify the fraction: 34 To convert a fraction to a percentage divide the top number by the bottom number, then multiply the result by 100% First divide 3 by 8: 3 8 = 0.375 Then multiply by 100%: 0.375 100% = 37.5% Answer: 38 = 37.5% To convert a percentage to a fraction, first convert to a decimal (divide by 100), then use the steps for converting decimal to fractions (like above) Start with:80% First convert to a decimal (=80/100):0.8Write down the decimal "over" the number 1:0.81 Multiply top and bottom by 10 for every numbers, and so on): In this case multiply by 10:0.8 101 10 Calculate:810 Then Simplify the fraction: 45 881, 1305,882, 1306,883, 1307,884, 1308,885, 1309,886, 1310 Copyright 2025 Rod Pierce Please provide values below to convert decimal to binary, or vice versa. Definition: The decimal system used to represent integer and non-integer numbers, using the symbols 0, 1, 2, 3, 4, 5 6, 7, 8, and 9. It is a system that uses positional notation, where the same symbol is used in different positions, and the magnitude is determined by which "place" the symbol (the "1") is the same in each position, they all have different magnitudes. Decimal fractions can also be represented by using a decimal point ("."). History/origin: Numerals based on ten have been used by many cultures of Greece, the classical Greeks, and the Romans, among others. Some believe that this is linked to the human hand usually having ten digits. The positional decimal system in use today has roots as early as around the year 500, in Hindu mathematics during the
Gupta period. The earliest known evidence of the Hindu-Arabic numerals being used in Europe was found in the Codex Vigilanus, a compilation of historical documents written in the year 976. The numerals that people today are accustomed to were a result of early typesetting in the late 15th to earthly 16th century. Current use: The decimal numeral system is the most common system used around the world for the symbolic representation of numbers. It is used ubiquitously for everyday applications, mathematics, and within many other contexts. Binary Definition: The binary numeral system is a base-2 numeral system that typically only uses two symbols: 0 and 1. Thus, it has a radix, or a base number of unique digits of two. Each digit in binary is referred to as a bit. It is a system that uses positional notation in which the same symbol is used for different orders of magnitude, where each "place" represents a different value dependent on whichever base is 2.In the binary number 101, the first "1" on the left is in the 22 place, the "0" is in the 21 place, and the second "1" is in the 20 place. If this were converted to decimal:101 = 1 22 + 0 21 + 1 20 = 4 + 0 + 1 = 5History/origin: There is evidence of systems related to binary number of different cultures including that of ancient Egypt, China, and India. However, the modern binary number system was studied and developed by Thomas Harriot, Juan Caramuel y Lobkowitz, and Gottfried Leibniz in the 16th and 17th centuries. Current use: The binary system is widely used in almost all modern computers or computer based devices. Because of this, it is sometimes referred to as the "language of computers." Its widespread use can be attributed to the ease with which it can be implemented in a compact, reliable manner using 0s and 1s to represent states such as on or off, open or closed, etc. Fractions, Decimals and Percentages are three different ways of expressing a part of a whole. We can convert a decimal to a percentages of expressing a part of a whole. We can convert a decimal to a percentage we multiply by 100. Example 1: Convert 0.7 to a percentages of expressing a part of a whole. We can convert a decimal to a percentage we multiply by 100. Example 1: Convert 0.7 to a percentage we multiply by 100. Example 1: Conver we multiply by 100.0.7 100 = 700.7 = 70% Example 2: Convert 0.19 to a percentage to a decimal to a percentage to a decimal we divide by 100Dividing by 100 is the opposite of multiplying by 100 Example 3: Convert 25% to a decimal To convert a percentage to a decimal we divide by 100Dividing by 100 is the opposite of multiplying by 100.0.19 = 19% To convert a percentage to a decimal To convert a percentage to a decim we divide by 100.25 100 = 0.2525% = 0.25 Example 4: Convert 9% to a decimal we divide by 100.9 100 = 0.099% = 0.09 Try these: Converting between Percentage and FractionsA percentage is out of 100. We can re-write any percentage as a fraction by writing it over 100. Example 5: Convert 11% to a fraction. A percentage is the same as a fraction out of 100. We can write 11% as 11100 Example 6: Convert 36% as 36100We have written 36% as a fraction, but it is not in its simplest form. To simplify we need to find a times table that 36 and 100 are both in. 36 and 100 are both in the 2 and the 4 times tables. 4 is the biggest so we will divide the denominator and the numerator by 4.36 = 49100 = 42536% = 925 To convert a fraction to a percentage we can change the denominator to 100. Example 7: Convert 720 to a percentage we need to make the denominator 100. We can make the denominator 100. We can make the denominator 100 by multiplying by 5. 20 5 = 100We have to multiply the numerator by 5 too keep the fraction equivalent. To a percentage we need to make the denominator 100. We can make the denominator 100 by multiplying by 5. 20 5 = 100We have to multiply the numerator by 5 too keep the fraction equivalent. convert the fraction to a decimal first, and then from a decimal to a percentage. Try these: Convert 38 to a decimal We can decimal by calculating 3 8.We can use a calculator or short division to do the calculation. 3 = 0.37538convert it to a percentage (by multiplying by 100) and then write it is a fraction out of 100. Example 10: Convert 0.88 to a fraction out of 100. Example 10: Convert 0.88 to a percentage we multiply by 100. 0.88 100 = 2225 0.88 = 2225 If the decimal involves a recurring numbers we can type it into the calculator instead and the calculator will do the conversion for us. The recurring button looks like this: It may be found (depending on your calculator will do the conversion for us. The recurring button looks like this: It may be found (depending on your calculator) by pressing SHIFT then the square button: (0.7\dot3\) into a calculator by pressing: The calculator should give an answer of 1115Try these: Fractions, Decimals and Percentages are three different ways of expressing a part of a whole. We can convert between fractions, decimals and Percentages are three different ways of expressing a part of a whole. We can convert a decimal to a percentage we multiply by 100. Example 1: Convert 0.7 to a percentage To convert a decimal to a percentage we multiply by $100.0.7\ 100 = 700.7 = 70\%$ Example 2: Convert 0.19 to a percentage to a decimal we divide by 100 is the opposite of multiplying by 100 Example 3: Convert 25% to a decimalTo convert a percentage to a decimal we divide by 100.25 100 = 0.2525% = 0.25 Example 4: Convert a percentage is out of 100. We can re-write any percentage as a fraction by writing it over 100. Example 5: Convert 11% to a fraction out of 100. We can write 11% as 11100 Example 6: Convert 36% as 36100We have written 36% as a fraction out of 100. We can write 11% as 11100 Example 6: Convert 36% as a fraction out of 100. We can write 36% as 36100We have written 36% as a fraction out of 100. We can write 11% as 11100 Example 6: Convert 36% as 36100We have written 36% as a fraction out of 100. We can write 11% as 11100 Example 6: Convert 36% as 36100We have written 36% as a fraction out of 100. We can write 11% as 11100 Example 6: Convert 36% as 36100We have written 36% as 36100We have but it is not in its simplest form. To simplify we need to find a times table that 36 and 100 are both in 4.36 = 4.9100 = 4.2536% = 925We could have also halved the top and bottom, and then
halved again: 36100 = 1850 = 925 To convert a fraction to a percentage we can change the denominator 100. Example 7: Convert 720 to a percentage we need to make the denominator 100. We can make the denominator 100. Example 7: Convert 720 to a percentage we need to make the denominator 100. Example 7: Convert 720 to a percentage we need to make the denominator 100. Example 7: Convert 720 to a percentage we need to make the denominator 100 by multiplying by 5. 20 5 = 100We have to multiply the numerator by 5 too keep the fraction equivalent. To a percentage we need to make the denominator 100 by multiplying by 5. 20 5 = 100We have to multiply the numerator by 5 too keep the fraction equivalent. 35100 = 35%When the denominator is not a factor of 100 it may be easier to convert from a fraction to a decimal we can divide the numerator by the denominator. Example 8: Convert 38 to a decimal. We can convert 38 to a decimal by calculating 3 8. We can use a calculator or short division to do the calculator we can also use the SD button. Example 9: Convert 712 to a decimal. We need to calculator we can also use the SD button. Example 9: Convert 712 to a decimal. We need to calculator we can also use the SD button. simplify our answer by dividing top and bottom by $4.88100 = 2225\ 0.88 = 2225\ 1$ f the decimal involves a recurring button looks like this: It may be found (depending on your calculator) by pressing SHIFT then the square button: Example purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution You must give appropriate credit, provide a link to the license terms as long as you follow the license terms. Attribution You must give appropriate credit, provide a link to the license terms. you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation . No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Decimals, Fractions and Percentages are just different ways of showing the same value: A Half can be written..... as a fraction: 12 ... as a decimal: 0.5 ... as a percentage: 50% A Quarter can be written... ... as a fraction: 14 ... as a decimal: 0.5 ... as a percentage: 50% A Quarter can be written... ... as a fraction: 14 ... as a fraction: 15 ... as a fraction: 16 ... as a fraction: 16 ... as a fraction: 16 ... as a fraction: 17 ... as a fraction: 18 sign. An easy way to divide by 100 is to move the decimal point 2 places to the left: From Percent To Convert from decimal point 2 places to the left Don't forget to remove the decimal point 2 places to the left. From Decimal To Percent move the decimal point 2 places to the right Don't forget to add the % sign! From Fraction to Decimal To convert a decimal to a fraction needs a little more work. First, write down the decimal "over" the number 1:0.751Multiply top and bottom by 10 for every number, and so on). In this case multiply by 100:0.75 1001 100Calculate:75100 Then Simplify the fraction: 34 To convert a fraction to a percentage divide the top number by the bottom number, then multiply the result by 100% First divide 3 by 8: 3 8 = 0.375 Then multiply by 100%: 0.375 100% = 37.5% Answer: 38 = 37.5% To convert to a decimal (divide by 100), then use the steps for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a decimal (divide by 100), then use the step for convert to a de 1:0.81Multiply top and bottom by 10 for every numbers, and so on):In this case multiply by 10:0.8 101 10Calculate:810Then Simplify the fraction: 45 881, 1305,882, 1306,883, 1307,884, 1308,885, 1309,886, 1310 Copyright 2025 Rod Pierce Here we will learn about converting fractions youre still stuck. In order to compare fractions, decimals and percentages you need to be able to convert between them. On this page we will explore how to convert a fraction to a decimal divide the numerator by the denominator. To convert a fraction to a percentage divide the numerator by the denominator and multiply by 100. To convert a percentage by 100. To convert a percentage by 100. To convert a percentage by 100. To convert a decimal divide the percentage by 100. To convert a percentage by 100. to a fraction: write the decimal as a fraction by dividing by1, convert the numerator to an integer (by multiplying by a multiply the fraction. To convert a recurring decimal to a fraction the calculation is more complex: Assign the recurring decimal to an unknown value e.g x. Multiply x (and the recurring decimal) by a base of 10 so you can eliminate the recurring decimals. Divide by the coefficient of x. Simplify the fraction where possible. Fractions, decimals and percentages are different ways of expressing the same value Fraction: A fraction results from dividing one integer by another: E.g. means 1 4, and is made up of a numerator (the bottom number) and a denominator refers to how many parts there are in total. So here we have 1 out of 4 parts. We need to equate denominators when converting fractions. When verbalising fractions we can refer to them in different ways: E.g. can be verbalised as three out of eight or three eighths. Some fractions have specific names which you will already be familiar with: E.g. is known as one quarter. Note: The line in a fraction is called the vinculum. Note: Any value that can be written as a fraction is called a rational number. Decimal: Numbers containing a decimal point are often referred to as decimal number which can be read as four point six two Note: The word decimals comes from the Latin decimal meaning a tenth. This is why the numbers after the point represent tenths, hundredths and so on. Percentage: A percentage represents a number out of 100 i.e. per cent. E.g.1% means 1 per 100, 55% means 55 per 100 122% means 122 per 100. Note: The % symbol (out of 1000) and the per then thousandth symbol *(out of 1000). Fractions, decimals and percentages are all equivalents of each other, so we can order them by converting the fractions and decimals to percentages gives \[\frac $\{1\}\{4\}=25\$ \\\,\quad 0.3=30\\\,\quad 0.3=30\\\\,\quad 0.3=30\\\\,\quad 0.3=30\\\\,\quad 0.3=30\\\\,\quad 0.3=30\\\\\quad 0.3=30\\\\\quad 0.3=30\\\\quad 0.3=30\\\\quad 0.3=30\\\quad 0.3=30\\\quad 0.3=30\\\quad 0.3=30\\\quad 0.3=30\\\quad 0.3=30\\\quad 0.3=30\\quad 0.3=30\quad 0.3=30\\quad 0.3=30\\quad 0.3=30\\quad 0.3=30\\quad 0.3=30\quad 0.3=30\\quad 0.3=30\\quad 0.3=30\quad 0.3=30\\quad 0.3=30\quad 0.3=3 $frac\{1\}\{5\}=20\%\]$ Ascending means smallest to biggest, the smallest percentage is 19%=0.19, the biggest percentage is 19%=0.19. decimals and percentages you need to be able to convert between them. Here we will explore step by step how to converting fractions to percentages to fractions. Converting decimals to percentages to fractions. Converting fractions to decimals to percentages to fractions. decimals. Converting recurring decimals to fractions. In order to convert a fraction to a decimal in order to convert a fraction in its simplest form: Write the decimal as a fraction by dividing by 1. Convert the numerator to an integer (by multiplying by a multiple of 10). Multiply the denominator by the same amount (to create an equivalent fraction). Simplify the frac{0.75}{1} \\\\ =\frac{75}{100} \\\ =\frac{75}{100} \\\ =\frac{75}{100} \\\ =\frac{75}{100} \\\ =\frac{75}{100} \\ =\frac{75}{10 step guide: Decimals to fractions In order to convert a fraction to a percentage: Divide the numerator by the denominator. Multiply by 100. E.g. \begin{array} {1} \frac{3}{4} \\\\ = 3 \div 4 = 0.75 \\\\ = 3 \div 4 = 0.75 \\\\ = 3 \div 4 = 0.75 \\\ =\frac{75}{100} \\\ =\frac{75}\div 25}{100\div 25} \\\ =\frac{33}{4} \end{array} Step by step guide: Percentages to fractions In order to convert a decimal by a 100. E.g. \begin{array} Step by step guide: Decimals to percentages In order to
convert a percentage to a decimal: Divide the percentage by 100. E.g. \begin{array} {1} 75 \w \\\\ =0.75 \end{array} {100. K.g. \begin{array} {1} 75 \w \\\\ =0.75 \end{array} {100. E.g. \begin{array} {100. the recurring part of the decimal by subtraction. Subtract your values of x and respective recurring decimals. Divide by the coefficient of x. Simplify the fraction where possible. E.g. \begin{array} &= x \\\ \frac{24}{99} &= x \\\ \frac{24}{99} &= x \\\ \frac{24}{33} &= x \end{array} Step by step guide: Recurring decimals to fractions In order to compare fractions, decimals and percentages: Convert all the values into the same form (i.e. fractions, decimals or percentages). Note: Which one you convert to may differ based on the question and context. If working with fractions, decimals or percentages. decimals; write all values in a vertical line ensuring the decimals places are aligned. If working with percentages; check they all are out of 100. If fractions compare the numerators (denominators must be equal). If decimals compare the units, tenths, hundredths etc. If percentages compare the value before the % sign. Check you have answered the question e.g. are they in ascending order? Write all values in their original form. Get your free comparing fractions, decimals and percentage worksheet of 20+ questions and answers. Includes reasoning and applied questions and answers. Includes reasoning and applied questions. DOWNLOAD FREE Key terminology for converting fractions, decimals and percentages Integer whole number E.g. 5 is an integer whilst 5.4 is not an integer whole number E.g. 5 is an integer whole number E.g differently E.g. \[\frac{2}{4} = \frac{1}{2}\] Therefore, \[\frac{2}{4} \ quad \text{and} \ quad \frac{1}{2}\] are equivalent fractions. Unit fractions because its numerator is 1. Unlike denominators Fractions with non-identical denominators are sometimes called unlike denominators. When comparing fractions we need a common denominator (sometimes called like denominators): E.g. \[\frac{1}{4} \quad \frac{1}{3}\] are unlike denominators because the bottom numbers of each fraction where the numerator is greater than the denominator (sometimes called like denominators): E.g. \[\frac{1}{4} \quad \frac{1}{3}\] Mixed number and number made up of an integer and a fraction E.g. \[50 \%=\frac{1}{2}=0.5\] Recurring decimal A decimal number with a digit (or group of digits) that repeats forever. The part that repeats forever. The part that repeats can also be shown by placing dots over the first and last digits of the repeating pattern: E.g. [\begin{aligned} &0.\\dot{3}=0.333 \\\ &0.\\dot{4} = 0.12342341234 \end{aligned}\] Note: this are sometimes called repeating order. \[\\frac{2}{3},\\quad \quad \quad \\quad \\quad \quad \\quad \quad \\quad \quad \\quad \\quad \\quad \\quad \quad \\quad \quad \\quad \quad \\quad \quad \\quad \quad \\quad \quad \quad \quad \quad \quad \quad \quad \quad \quad \\quad \quad \q\quad \quad \quad \quad \quad \quad \quad \q\quad \q\quad \q 0.6,\quad \quad \frac{3}{6}\] Convert all the values into the same form: fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert the single decimal to fractions so we can convert all the fractions so we can convert the single decimal to fraction form. fractions you need to find a common denominator for the three fractions, we can do this by finding the lowest common multiple of 3, 5 and 6. The lowest common multiple (lcm) of 3, 5 and 6 is 30. Therefore the common multiple of 3, 5 and 6 is 30. Therefore the common denominator is 30. Lets now convert each fraction to have a denominator of 30: \begin{array}{1} \frac{2}{3} = \frac{20}{30} \quad have a common denominator we can compare the different numerators: \[\frac{10}{30}, \quad \grac{15}{30}\] 5Write all values in their original form. The fractions and decimals in ascending order are: \[\frac{3}{6}, \quad \0.077\] Convert all the values into the same form: fractions, decimals or percentages. Three of the values are decimals and one is a percentage so we can convert the single percentage to a decimal. Write all values in a vertical line ensuring the decimals places are aligned, to compare decimals places are aligned, to write all values in a vertical line ensuring the decimals places are aligned. The best way to compare decimals is to write all values in a vertical line ensuring the decimals places are aligned. The best way to compare decimals is to write all values in a vertical line ensuring the decimals places are aligned. hundredths etc. Create a place value table and put each number in: UnitsDecimal PointTenthsHundredthsThousandths0.700.0770.070.077 We can now easily compare the values. Check you have answered the question The descending order is: $[0.770, \quad 0.770, \quad$ Three of the values are percentages and one is a fraction so we can convert the single fraction to a percentages; check they all are out of 100. As all the percentages are shown with the % symbol it means they are all out of one hundred. Compare the value before the % sign. Because each percentage is out of 100 we can compare the value before the symbol. \[56, \guad 54, \guad 56.4\] Write all values in their original form. The ascending order is: \[5.4\%, \quad 54\%, \quad 54\%, \quad 56.4\%\] Place these in ascending order: \[0.5, \quad 56.4\%\] Place these in different forms, you therefore need to write them in the same form. In this example we will use decimals as the common form but you could use fractions or percentages. Lets convert each value to a decimal \begin{array} {1} \frac{1}{3} = 1 \div 3 = 0.333 = 0.\dot{3}, \quad 0.25\] Check you have answered the question The values in ascending order are: \[0.25, \quad 0.5\] Write all values in their original form. The values in ascending order are: \[25\%, \quad \frac{1}{3}, \quad 0.5\] Extra: try this questions again using fraction or percentages as your common form. Place these in ascending order: \[45.2\%, \quad \frac{22}{50}, \quad \frac{22}{50}, \quad \frac{4}} $\{10\}\$ Convert all the values into the same form: fractions, decimals or percentages. The three values given are in different forms, you therefore need to write them in the same form. In this example we will use percentages as the common form but you could use decimals or fractions. \begin{array}{1} 0.463=46.3 \% \\\\\frac{22}{50}=\frac{44}{} $\{100\}=44\$ \%\\\\\frac $\{4\}\{10\}=\$ \frac $\{40\}\{100\}=40\$ \%\end $\{array\}$ \ With percentages; check they all are out of 100. As all the percentages are shown with the % symbol it means they are all out of one hundred. Compare the value before the % sign. Because each percentage is out of 100 we can compare the value before the symbol \[45.2, \quad 46.3] $44, \quad 40$ We can see that 40 is the smallest value shown and 46.3 is the largest value shown Check you have answered the question e.g. are they in ascending order? The ascending order is: $\{40\%, 44\%, 45.2\%, 44.3\%\}$ \quad 45.2 \%, \quad 0.463 \] Extra: try this questions again using decimals or fractions as your common form Incorrect answer. Not finding a common denominator when comparing and ordering fractions will result in the incorrect answer. A common error is to confuse ascending and descending to \frac{4}{100} which when simplified is \frac{1}{25} \frac{1}{4} 2 $= 0.31 \ 32 \ \% = 0.32 \ \% = 0.32 \ \% = 0.32 \ \% = 0.32 \ \% = 0.30 \ So the numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write these numbers in ascending order are 90\%, 0.89, \; frac{8}{9} 1. Write the 90\%, 0.$ order: 0.82, \quad \frac{4}{5}, \quad \frac{4}{5}, \quad \frac{2}{3}, \quad \frac{3}, \quad \frac{2}{3}, \quad \frac{2}{3}, \quad \frac{2}{3}, \qu 0.82, \quad \85 \%, \quad \frac{7}{8} (1) 2. Write these numbers in ascending order: 70 \%, \quad \frac{2}{3} (4), \quad \frac{2}{3} (3 marks) Attempt to convert all values to
the same formatwith at least one conversion correct carried out. (1) Smallest and largest values: 0.6 smallest \frac{3}{4} largest (1) Correct order with all given in original form: 0.6, \quad \frac $\{2\}\{3\}$, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. 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Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write these numbers in ascending order: 0.4, \quad \frac $\{3\}\{4\}$ (1) 3. Write the ascending order: 0.4, \quad \frac{3}{4}\$ (1) 3. Write the ascending order: 0.4, \quad \frac{3}{4}\$ (1) 3. Write the ascending order: 0.4, \quad \frac{3}{4}\$ (1) 3. Wri (1) Correct order with all given in original form: 35 \%, \quad \q \frac{25}{43} Music \quad \qua Art \frac{14}{25} largest (1) Correct order with all given (listed by subject): Music, Biology, Sports Science, Art, Physics, German. (1) You have now learned how to: Order positive and negative integers, decimals and fractions. Work interchangeably with terminating decimals and their corresponding fractions. Ordering fractions, decimals and percentages. Define percentages as number of parts per hundred. Work with percentages powers and roots Standard form Prepare your KS4 students for maths GCSEs success with Third Space Learning. Weekly online one to one GCSE maths revision lessons delivered by expert maths tuttors. Find out more about our GCSE maths tuition programme. We use essential and non-essential cookies and how to manage or change your cookie settings. AcceptPrivacy & Cookies Policy Download Article Download Article Download Article Download Article Download Article Download Article Converting numbers between percents, fractions, and decimals is a necessary basic math skill. The concepts are quite simple once you learn them. Not only will knowing how to convert small numbers help you on your test, but it is also useful for financial calculations. 1 Move the decimal point two places to the left to convert a percent to a decimal. Unless otherwise noted, in a percent, the decimal point two places to the left converts the percent to a decimal. This is the same thing as dividing the number by 100. Examples:[1]75% converts to .0310.5% conv fraction to its lowest form.[2]Example: 36% turns to 36/100.[3]To simplify, look for the highest number that goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, that would be 4.Determine how many times 4 goes into 36 and 100. In this case, the advance of the following how the following how many times 4 goes into 36 and 100. In this case, the advance of the following how many times 4 goes into 36 and 100. In this case, the advance of the following how many times 4 goes into 36 and 100. In this case, the advance of the following how many times 4 goes into 36 and 100. In this case, the advance of the following how many times 4 goes into 36 and 100. In this case, the advance of the following how many times 4 goes into 36 and 100. In this case, the advance of the following how many times 4 goes into 36 and 100. In this case, the advance of the following how many times 4 number should equal your original percent. Advertisement 3Remove the percent sign. Once the percent sign after converted to a decimal or fraction, the% sign is no longer appropriate. Remember, percent just means per one hundred.[4] Advertisement 1Multiply the decimal by 100 to change it to a percent just means per one hundred after being multiplied.[5] Dont forget to add the percent sign after multiplying.[6] Examples include: 0.32 becomes 32% 0.07 becomes 7%, 1.25 becomes 125%, 0.083 becomes 8.3%.2Convert a terminating decimal to a fraction. The denominator is a 1 with as many places to the right as you have decimals in the original number. Simplify the fraction at the end.[7]For example: 0.32 has two decimal places. Move the decimal one place to the right and divide by 10: 8/10. With a common factor of 4, the fraction simplifies to 8/25. Another example: 0.8 only has one decimal place. Move the decimal one place to the right and divide by 10: 8/10. With a common factor of 4, the fraction simplifies to 8/25. Another example: 0.8 only has one decimal places. factor of 2, the fraction simplifies to 4/5. To check your work, simply divide out the fraction. A repeating decimal is one that has a sequence of numbers that continually repeat. For example, if the number is 0.131313... there are 2 repeating decimals (13 is repeating). Determine how many repeating decimals there are and then multiply the decimal by 10n, where n is the number of repeating decimals. [8] For example, 0.131313... is multiplied by 100 (10 to the power of 2) and we get 13.131313... is multiplied by 100 (10 to the power of 2) and we get 13.131313... example, 13.131313... = 13, so the numerator is 13.[9]To determine the denominator (lower number), subtract 1 from the number you multiplied by 100, so the denominator is 100 - 1 = 99. The final fraction for 0.131313 is 13/99 Additional Examples: 0.333... becomes 3/90.123123123... becomes 123/9990.142857142857... becomes 142857/999999If necessary, take the fraction to the lowest term. For example, 142857/999999 becomes 1/7. Advertisement 1Divide the numerator by the denominator to change the fraction to a decimal. Interpret the fraction bar to mean "divided by". This means for any fraction x/y, it is the same as saying x divided by y.[10] For example: The fraction 4/8 yields the decimal 0.5.2Determine the number of decimal points. Many numbers dont divide evenly into each other. When you divide them, you have to decimal points. Remember the rules of rounding when truncating a fraction: if the next number is a 5, round the previous number up. For example, 0.145 rounds to 0.15. For example: The fraction and then multiply by 100 to change to a percent. Just as you did to convert the fraction to a decimal, divide the numerator by the denominator.[11] Multiply the resulting decimal by 100 and add a percent sign to finish the conversion.[12] If you had 4/8, dividing 4 by 8 would give you 50. Additional Examples:3/10 = 0.30 * 100 = 30%5/8= 0.625 * 100 = 62.5% Advertisement Add New Question What is 3 and 1 over 2 as a decimal? 3 = 3.5. Question What is 62.5 as a fraction? 62.5 (or the mixed number 62) is the equivalent of the improper fraction 625/10, which reduces to 125/2. 125 2 = 62.5. See more answers Ask a Question Advertisement Thanks Thank Founder of LA Math Tutoring, a private tutoring, a private tutoring company based in Los Angeles, California. With over 10 years of teaching experience, David works with students of all ages and grades in various subjects, as well as college admissions counseling and test preparation for the SAT, ACT, ISEE, and more. After attaining a perfect 800 math score and a 690 English score on the SAT, David was awarded the Dickinson Scholarship from the University of Miami, where he graduated with a Bachelors degree in Business Administration. Additionally, David has worked as an instructor for online videos for textbook companies such as Larson Texts, Big Ideas Learning, and Big Ideas Math. This
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