
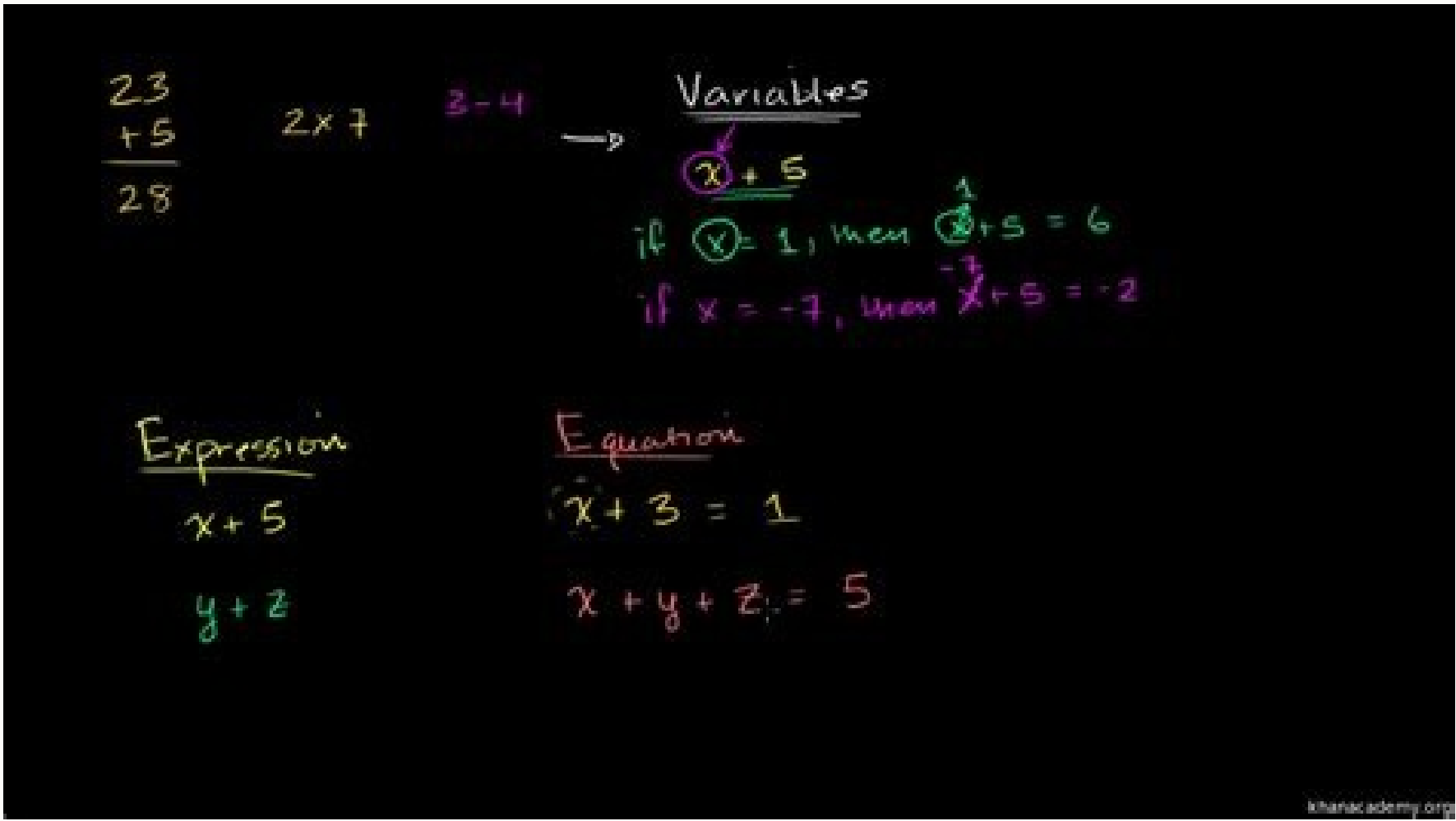


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MODULE 10 **Exponents and Scientific Notation**
Module Quiz: B

1. Which shows 2.6×10^4 in standard notation?

A 264 C 26,000
B 2,600 D 26,104

2. The population of a large U.S. city is 1,703,210. Which of the following best expresses this population?

A 1.7×10^6 C 1.703×10^6
B 1.7×10^7 D 17.03×10^6

3. Find the value of 6^{-3} .

A -216 C $\frac{1}{216}$
B -63 D $\frac{1}{36}$

4. When changing 67,430,000 to scientific notation, how many places is the decimal point moved?

A 4 C 7
B 6 D 8

5. Let x be the first factor in an expression in scientific notation. Which describes this factor?

A $0 \leq x \leq 1$ C $1 \leq x \leq 10$
B $0 \leq x < 1$ D $1 \leq x < 10$

6. What is the standard notation for a distance of 9.302×10^{10} miles?

A 9,302,000,000 miles
B 9,302,107,000 miles
C 93,020,000,000 miles
D 93,200,000,000 miles

7. A number between 0 and 1 is written in scientific notation. Which of these describes the exponent?

A fraction
B whole number
C positive integer
D negative integer
8. What is the scientific notation for a length of 0.0000923 centimeter?

A 9.23×10^{-6} cm C 92.3×10^{-6} cm
B 9.23×10^{-5} cm D 923×10^{-5} cm

9. Simplify the expression $(7 - 2)^3 + (6 - 2)^3$.

A 25 C 41
B 64 D 89

10. A dollar bill is about 0.00011 meter thick. What is this thickness in scientific notation?

A 11×10^{-6} meter
B 1.1×10^{-4} meter
C 1.1×10^{-3} meter
D 11×10^{-3} meter

11. A distance of 6.5×10^{-8} is multiplied by 10. The result is written in scientific notation. What is the new exponent?

A -80 C -7
B -8 D -6

12. A square garden has an area of 1,600 square feet. How long is each side of the garden?

A 16 feet C 80 feet
B 40 feet D 160 feet

13. Which of these is most likely to describe the number of yards lost in a football game?

A rational number
B whole number
C real number
D integer

Graphs of Linear Equations

You have learned earlier that a linear function can be described by its equation, either in the form $y = mx + b$ or $Ax + By = C$. A linear equation can also be described by its graph. Graphing linear equations can be done using any of the four methods:

- Using two points
- Using x - and y -intercepts
- Using the slope and the y -intercept
- Using the slope and a point

Using Two Points

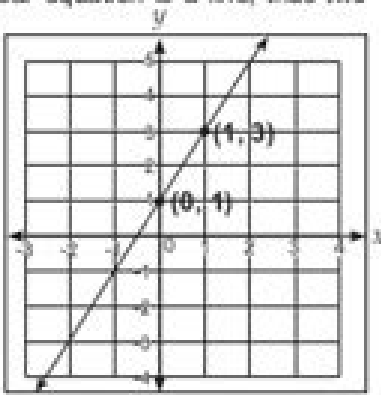
One method of graphing a linear equation is using two points. In Geometry, you learned that two points determine a line. Since the graph of the linear equation is a line, thus two points are enough to draw a graph of a linear equation.

Illustrative Example

Graph the function $y = 2x + 1$.

You may assign any two values for x , say 0 and 1. By substitution,

$$\begin{aligned} y &= 2x + 1 \\ y &= 2(0) + 1 \\ y &= 0 + 1 \\ y &= 1 \end{aligned}$$
$$\begin{aligned} y &= 2x + 1 \\ y &= 2(1) + 1 \\ y &= 2 + 1 \\ y &= 3 \end{aligned}$$



If $x = 0$, then $y = 1$. Furthermore, if $x = 1$, then $y = 3$. So, the ordered pairs are $(0, 1)$ and $(1, 3)$. This means that the line passes through these points.

After finding the ordered pairs of the two points, plot and connect them. Your output is the graph of the linear equation.

Exercise 8

Graph each linear equation that passes through the given pair of points.

1. $(1, 2)$ and $(3, 4)$

2. $(5, 6)$ and $(0, 11)$
3. $(-2, \frac{5}{3})$ and $(\frac{1}{2}, -\frac{1}{3})$

4. $(\frac{1}{3}, -\frac{1}{6})$ and $(\frac{3}{2}, \frac{1}{2})$

Using x -Intercept and y -Intercept

Secondly, the linear equation can be graphed by using x -intercept a and y -intercept b . The x - and y -intercepts of the line could represent two points, which are $(a, 0)$ and $(0, b)$. Thus, the intercepts are enough to graph the linear equation.

4) Bobby wants to go on a school trip that will cost him \$250. He comes up with an equation that represents how much he needs to save each week so follows:

$$25w + 30 = 250, \text{ where } w \text{ is the number of weeks spent saving}$$

(a) If he has 9 weeks to save, will he have enough money to go on the trip? Explain.

$$\begin{aligned} 25(9) + 30 &= 250 \\ 225 + 30 &= 250 \\ 255 &= 250 \\ 255 &> 250 \end{aligned}$$

Yes he will have enough money after 9 weeks.

(b) He also wants to have \$100 spending cash on the trip. He decides to save an extra \$10 a week. To do this he changes his original equation as follows:

$$25w + 30 + 10w = 250 + 100, \text{ where } w \text{ is the number of weeks spent saving}$$

Will nine weeks be enough time now? Show your calculations and explain.

$$\begin{aligned} 25(9) + 30 + 10(9) &= 250 + 100 \\ 225 + 30 + 10(9) &= 350 \\ 225 + 30 + 90 &= 350 \\ 255 + 90 &= 350 \\ 345 &= 350 \\ 345 &< 350 \end{aligned}$$

He will not have the \$350 after 9 weeks. He wanted to save an additional \$100, but he only saved an additional \$90.

<http://study.com/academy/practice/quiz-worksheet-writing-graphing-standard-form-linear-equations.html>

$C: y=2x-8$	$C: y=2x-4$
$C: y=-1/2x-4$	$C: y=1/2x$
$C: y=x-4$	

P	$(-4, 0)$	P	$(0, -4.5)$
P	$(-3, 0)$	P	$(4, 0)$
P	$(0, 4)$		

$C: 2x+3y=10$	$C: y=2x+6$
$C: (y-4)=(x+6)$	$C: x+2y=6$
$C: y=2x-6$	

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