

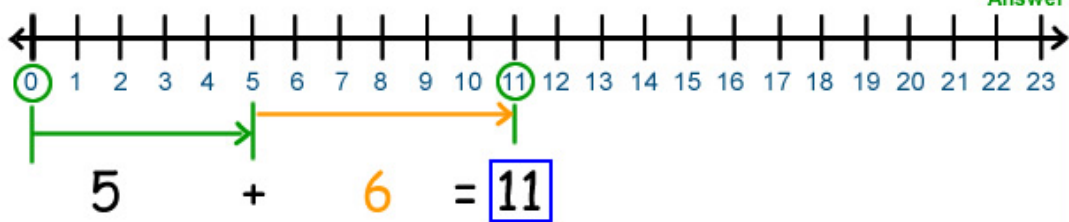


Questions?
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Ask Question

Add $5 + 6$ using the number line.

Question



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

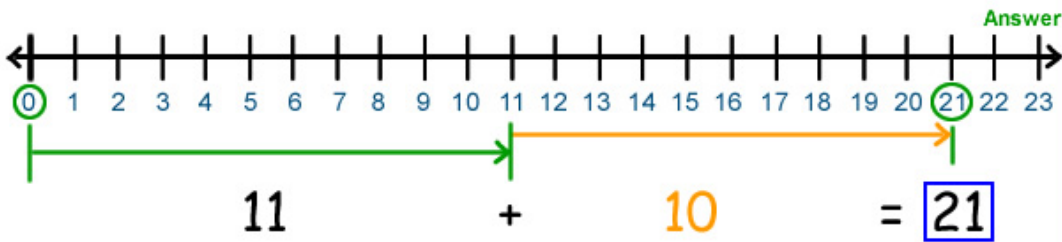


Questions?
Ask a live tutor now!

Ask Question

Add $11 + 10$ using the number line.

Question



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

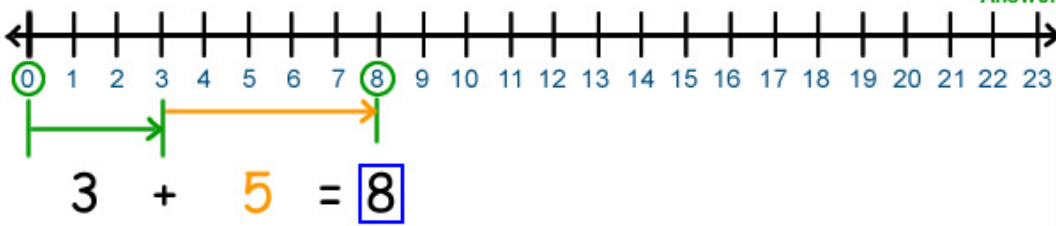


Questions?
Ask a live tutor now!

Ask Question

Add $3 + 5$ using the number line.

Question



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

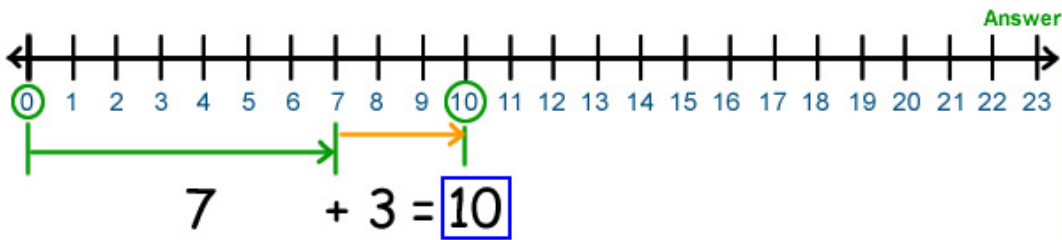


Questions?
Ask a live tutor now!

Ask Question

Add $7 + 3$ using the number line.

Question



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

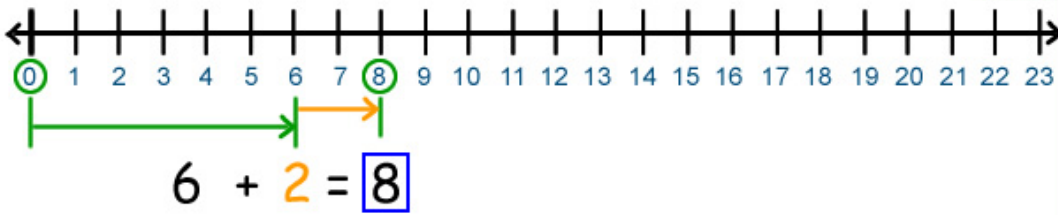


Questions?
Ask a live tutor now!

Ask Question

Add $6 + 2$ using the number line.

Question



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

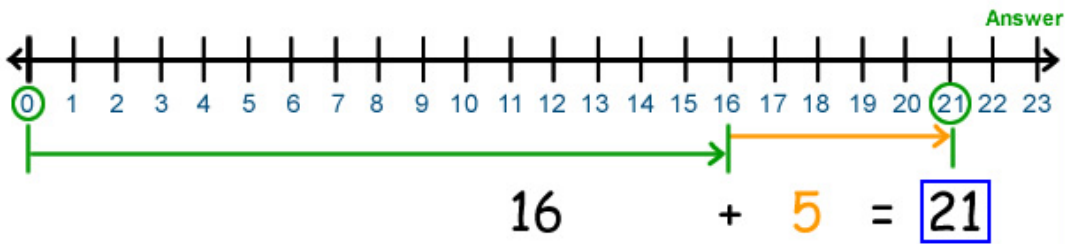


Questions?
Ask a live tutor now!

Ask Question

Add $16 + 5$ using the number line.

Question



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

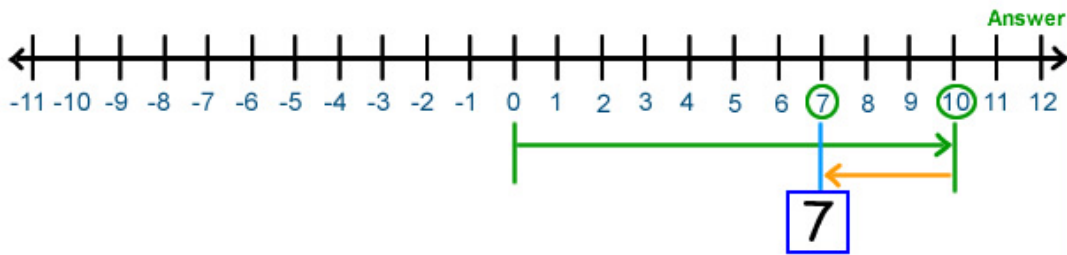


Questions?
Ask a live tutor now!

Ask Question

Subtract $10 - 3$ using the number line.

Question



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

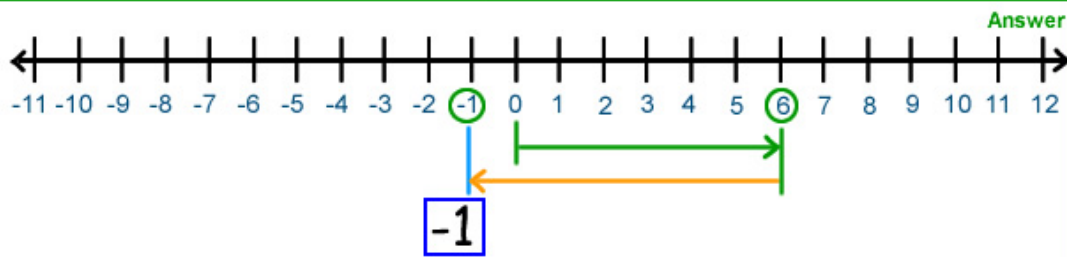


Questions?
Ask a live tutor now!

Ask Question 

Subtract 6 - 7 using the number line.

Question



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

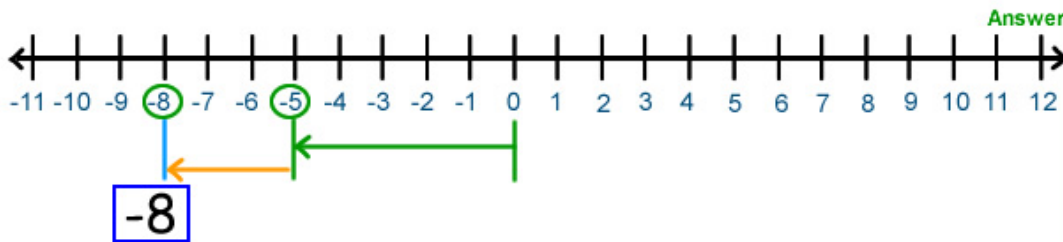
[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Subtract $(-5) - 3$ using the number line. Question



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



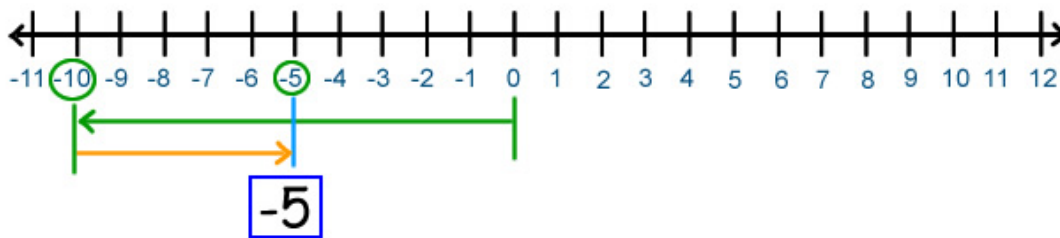
Questions?
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Ask Question 

Subtract $(-10) - (-5)$ using the number line. Question

$$(-10) - (-5)$$

$$-10 + 5$$



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

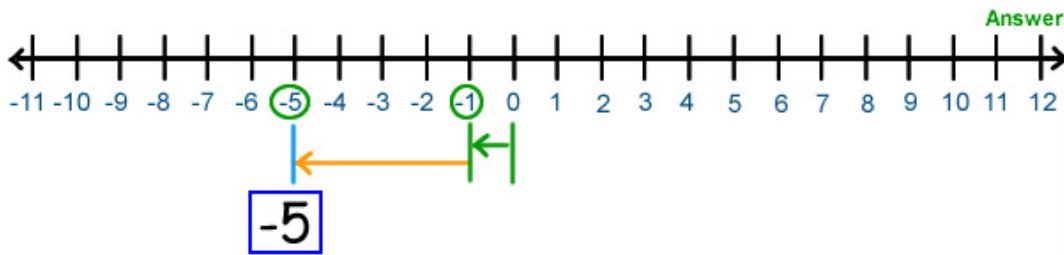
[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question

Subtract $(-1) - 4$ using the number line. Question



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

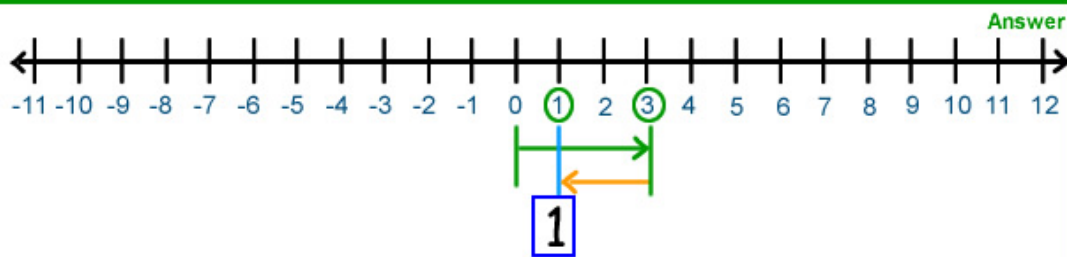
[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Question
A plane is flying at a height of 3 km, it then descends 2 km.
What is the plane's final height?



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Find the product of -4 and 3.

Question

$$(-4) \times +3$$

$$-12$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Find the product of -5 and -3.

Question

$$(-5) \times (-3)$$

$$+15$$

$$15$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

Problem 3 of 6



Questions?
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Ask Question 

Find the product of -7 and 0 .

Question

$$(-7) \times 0$$

Answer

0

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

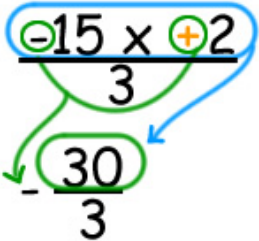
Ask Question 

Find the product of -15 and $\frac{2}{3}$.

Question

Answer

$$(-15) \times \frac{2}{3}$$


$$\frac{-15 \times +2}{3}$$
$$-\frac{30}{3}$$

$$\boxed{-10}$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Find the product of -10 and $-\frac{4}{5}$.

Question

Answer

$$(-10) \times \left(-\frac{4}{5}\right)$$

$$\frac{(-10) \times (-4)}{5}$$

$$\frac{+40}{5}$$

8

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

Problem 6 of 6



Questions?
Ask a live tutor now!

Ask Question 

A diver is -10ft under water. He knows there is a cave 3 times his depth. What is the cave's depth?

Question

-10 ft

$$+3 \times (-10)$$

- 30 ft

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

Problem 1 of 6



Questions?
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Ask Question 

Divide -6 by 3.

Question

$$-6 \div 3$$

Answer

$$\frac{-6}{+3} = -2$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question

Divide 5 and $-1/3$.

Question

$$5 \div \left(-\frac{1}{3}\right)$$

$$5 \times \left(-\frac{3}{1}\right)$$

$$+5 \times (-3)$$

$$\boxed{-15}$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

Problem 3 of 6



Questions?
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Ask Question 

Divide -4 and $-1/5$.

Question

$$(-4) \div \left(-\frac{1}{5}\right)$$

$$(-4) \times \left(-\frac{5}{1}\right)$$

$$(+4) \times (+5)$$

+20

20

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Divide $-3/4$ and $3/2$.

Question

Answer

$$\frac{-3}{4} \div \frac{3}{2}$$

$$\frac{-3}{4} \times \frac{2}{3}$$

$$\frac{-\cancel{3}}{4} \times \frac{+\cancel{2}}{3}$$

$$\frac{-2}{4}$$

$$\frac{-\cancel{2}}{2 \times 2}$$

$$\boxed{\frac{-1}{2}}$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
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Ask Question 

Divide 0 and $\frac{1}{2}$.

Question

$$0 \div \frac{1}{2}$$

Answer

0

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
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Ask Question

Divide $(-2/5)$ by $(-1/5)$.

Question

Answer

$$\begin{aligned} & \frac{-2}{5} \div \left(\frac{-1}{5}\right) \\ & \frac{-2}{5} \times \left(\frac{5}{-1}\right) \\ & -2 \times (-1) \\ & +2 \end{aligned}$$

2

1. Basic Math for Algebra

- [Adding real numbers](#)
- [Subtracting real numbers](#)
- [Multiplying signed numbers and f...](#)
- [Dividing signed numbers and frac...](#)
- [Percentages](#)
- [Ratios and scale](#)
- [Rates and conversion](#)
- [Exponents and powers](#)
- [Square roots](#)
- [Order of operations](#)
- [Simplify expressions](#)
- [Functions](#)

[Table of Contents](#)



Questions?
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Ask Question 

Calculate 25% of 20.

Question

Answer

$$20 \times 25\%$$

$$\frac{20 \times 25}{100}$$

$$\frac{50}{10}$$

5

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
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Ask Question 

Calculate 12% of 150.

Question

Answer

$$150 \times 12\%$$

$$\frac{150 \times 12}{100}$$

$$\frac{180}{10}$$

18

1. Basic Math for Algebra

- [Adding real numbers](#)
- [Subtracting real numbers](#)
- [Multiplying signed numbers and f...](#)
- [Dividing signed numbers and frac...](#)
- [Percentages](#)
- [Ratios and scale](#)
- [Rates and conversion](#)
- [Exponents and powers](#)
- [Square roots](#)
- [Order of operations](#)
- [Simplify expressions](#)
- [Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Calculate 14% of 200.

Question

Answer

$$200 \times 14\%$$

$$\frac{200 \times 14}{100}$$

$$\frac{28}{1}$$

$$28$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Calculate 60% of -20.

Question

Answer

$$-20 \times 60\%$$

$$\frac{-20 \times 60}{100}$$

$$\frac{-12}{1}$$

$$-12$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question

Calculate 550% of 2.

Question

Answer

$$2 \times 550\%$$

$$\frac{2 \times 550}{100}$$

$$\frac{110}{10}$$

$$11$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
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Ask Question 

Calculate 25% of 968.

Question

Answer

$$968 \times 25\%$$

$$\frac{968 \times 25}{100}$$

$$\frac{24200}{100}$$

$$242$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

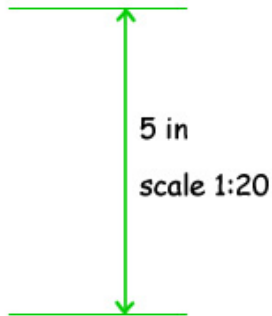


Questions?
Ask a live tutor now!

Ask Question

The scale model of a tree is 5 inches high. The scale is 1:20. How tall is the real tree?

Question



Answer

$Y = \text{tree height}$

$$\frac{5}{Y} \times \frac{1}{20}$$

$$1 \times Y = 5 \times 20$$

$$y = \boxed{100 \text{ in}}$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

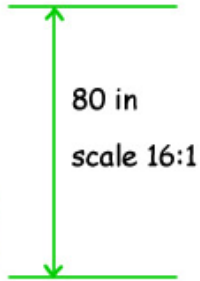


Questions?
Ask a live tutor now!

Ask Question

An 80 inches drawing of a heart is used by medicine students. If the drawing is at a 16:1 scale, what is the heart's real size?

Question



Answer

$Y =$ Heart length

$$\frac{80}{Y} \times \frac{16}{1}$$

$$\frac{16 \times Y}{16} = \frac{80 \times 1}{16}$$

$$Y = \frac{80}{16} = 5 \text{ in}$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

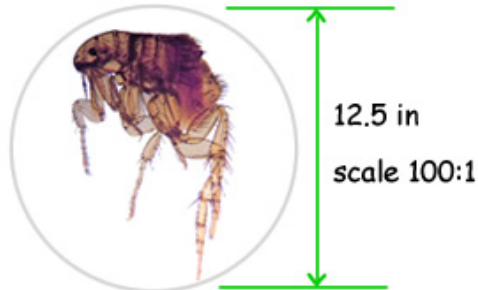


Questions?
Ask a live tutor now!

Ask Question

In an image seen under a microscope, a flea is 12.5 inches long. If the real image is 1/100th of the seen image, what is the real size of the flea?

Question



Answer

$Y =$ Flea length

$$\frac{12.5}{Y} \times \frac{100}{1}$$

$$100 Y = 12.5 \times 1$$

$$\frac{100}{100} Y = \frac{12.5 \times 1}{100}$$

$$Y = \frac{12.5}{100} = \boxed{0.125 \text{ in}}$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Problem 4 of 6

A printer mixes 5 parts of red ink with 2 parts of cyan ink to create a particular shade. John wants to replicate the color to paint a wall, and so he uses 10 quarts of red paint with 4 quarts of cyan paint. Will he obtain the same shade?

Question

Computer Printer
Ratio Red:Cyan
5:2

Paint a Wall
Ratio Red:Cyan
10:4



$$\frac{10}{4} = \frac{5}{2}$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

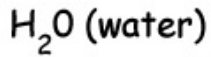


Questions?
Ask a live tutor now!

Ask Question 

A molecule of water has 2 atoms of hydrogen and 1 atom of oxygen. What is the ratio of the number hydrogen atoms to oxygen in water?

Question



$$\text{H} = 2$$

$$\text{O} = 1$$

Ratio

$$\text{H:O} = 2:1$$

2:1

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

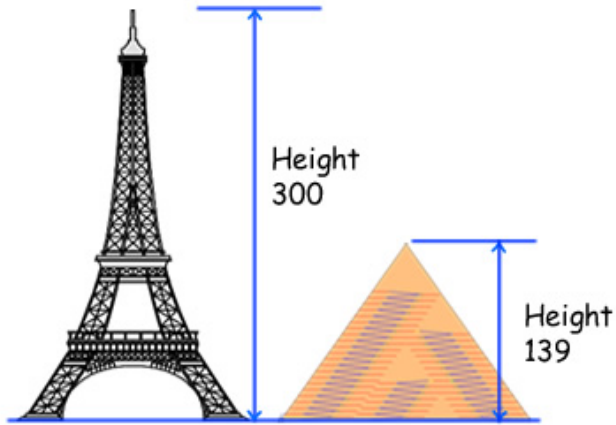


Questions?
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Ask Question ▶

The ratio of heights of the Eiffel Tower and the Great Pyramid of Giza is 300:139. Shannon draws the Great Pyramid of Giza with a height of 5 cm, how tall should she draw the Eiffel Tower?

Question



Eiffel Tower Great Pyramid of Giza

Answer

$$\frac{300}{139} = \frac{5}{y}$$

$$300 \times y = 139 \times 5$$

$$\frac{300 \times y}{300} = \frac{139 \times 5}{300}$$

$$y = \frac{139 \times 5}{300} = 2.32 \text{ cm}$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

Problem 1 of 6



Questions?
Ask a live tutor now!

Ask Question 

Hazelnuts cost \$20.50 for 7 pounds.
Find the cost per pound.

Question

$$\frac{\$20.50}{7 \text{ Lb}}$$

$$2.93 \text{ \$/Lb}$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

An average person walks about 60 km in 12 hours.
What is the unit rate?

Question

$$\frac{60 \text{ km}}{12 \text{ hr}}$$

$$5 \text{ km/hr}$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

Problem 3 of 6



Questions?
Ask a live tutor now!

Ask Question 

A car travels 100 km in 2 hours.
What is the unit rate?

Question

$$\frac{100 \text{ km}}{2 \text{ hr}}$$

$$50 \text{ km/hr}$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Jamie saves 10 dollars each week.
What is the unit rate in dollars per day?

Question

1 week = 7 days

$\frac{\$10}{7 \text{ day}}$

$\$1.43/\text{day}$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

A bus travels at 55 km/h.
What is the unit rate in miles per second?

Question

$$55 \text{ km} = 34.18 \text{ miles} \quad 1 \text{ hr} = 3600 \text{ s}$$

Answer

$$\frac{34.18 \text{ mi}}{3600 \text{ s}}$$

$$0.0095 \text{ mi/s}$$

1. Basic Math for Algebra

- [Adding real numbers](#)
- [Subtracting real numbers](#)
- [Multiplying signed numbers and f...](#)
- [Dividing signed numbers and frac...](#)
- [Percentages](#)
- [Ratios and scale](#)
- [Rates and conversion](#)
- [Exponents and powers](#)
- [Square roots](#)
- [Order of operations](#)
- [Simplify expressions](#)
- [Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question

Problem 6 of 6

Temperature in a room is increasing at a rate of 6 Celsius degree per hour. What is the rate in Fahrenheit per second?

Question

Answer

$$\Delta C = 6$$

$$F = \frac{9}{5}C + 32$$

$$\Delta F = \frac{9}{5} \times \Delta C$$

$$1 \text{ hr} = 3600 \text{ s}$$

$$\Delta F = \frac{9}{5} \times 6$$

$$\frac{10.8^\circ \text{ F}}{3600 \text{ s}}$$

$$0.003^\circ \text{ F/s}$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Calculate 5^4

Question

5^4

Answer

$5 \times 5 \times 5 \times 5$

625

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Calculate $(3^2)^0$

Question

$$(3^2)^0$$
$$(3 \times 3)^0$$
$$9^0$$

Answer

1

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
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Ask Question 

Calculate $(-4)^3$

Question

$$(-4)^3$$

Answer

$$(-4) \times (-4) \times (-4)$$

$$-64$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Express 256 to the power of 2.

Question

Answer

256

$2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

2^8

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



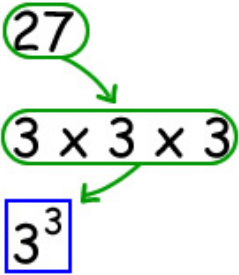
Questions?
Ask a live tutor now!

Ask Question 

Express 27 to the power of 3.

Question

Answer



27

$3 \times 3 \times 3$

3^3

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
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Ask Question 

Express 121 to the power of 11.

Question

Answer

121

11 × 11

11^2

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Find the square root of 81.

Question

$$1 \times 1 = 1$$

$$2 \times 2 = 4$$

$$3 \times 3 = 9$$

$$4 \times 4 = 16$$

$$5 \times 5 = 25$$

$$6 \times 6 = 36$$

$$7 \times 7 = 49$$

$$8 \times 8 = 64$$

$$9 \times 9 = 81$$

$$10 \times 10 = 100$$

$$\therefore \sqrt{81} = 9$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Find the square root of 36.

Question

$$1 \times 1 = 1$$

$$2 \times 2 = 4$$

$$3 \times 3 = 9$$

$$4 \times 4 = 16$$

$$5 \times 5 = 25$$

$$6 \times 6 = 36$$

$$7 \times 7 = 49$$

$$8 \times 8 = 64$$

$$9 \times 9 = 81$$

$$10 \times 10 = 100$$

$$\therefore \sqrt{36} = 6$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question

Find the square root of 1.

Question

$$1 \times 1 = 1$$

$$2 \times 2 = 4$$

$$3 \times 3 = 9$$

$$4 \times 4 = 16$$

$$5 \times 5 = 25$$

$$6 \times 6 = 36$$

$$7 \times 7 = 49$$

$$8 \times 8 = 64$$

$$9 \times 9 = 81$$

$$10 \times 10 = 100$$

$$\therefore \sqrt{1} = 1$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Find the square root of 36.

Question

$$1 \times 1 = 1$$

$$2 \times 2 = 4$$

$$3 \times 3 = 9$$

$$4 \times 4 = 16$$

$$5 \times 5 = 25$$

$$6 \times 6 = 36$$

$$7 \times 7 = 49$$

$$8 \times 8 = 64$$

$$9 \times 9 = 81$$

$$10 \times 10 = 100$$

$$11 \times 11 = 121$$

$$\therefore \sqrt{121} = 11$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)

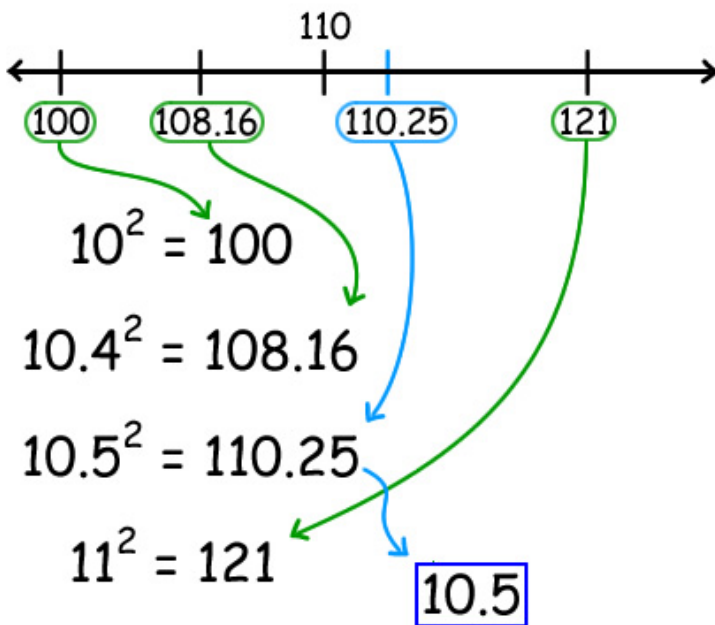


Questions?
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Ask Question ▶

Find the square root of 110 with two decimal accuracy.

Question



Answer

1. Basic Math for Algebra

- [Adding real numbers](#)
- [Subtracting real numbers](#)
- [Multiplying signed numbers and f...](#)
- [Dividing signed numbers and frac...](#)
- [Percentages](#)
- [Ratios and scale](#)
- [Rates and conversion](#)
- [Exponents and powers](#)
- [Square roots](#)
- [Order of operations](#)
- [Simplify expressions](#)
- [Functions](#)

[Table of Contents](#)

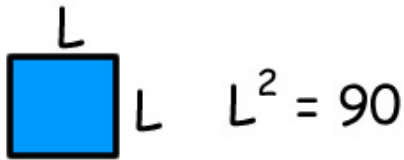


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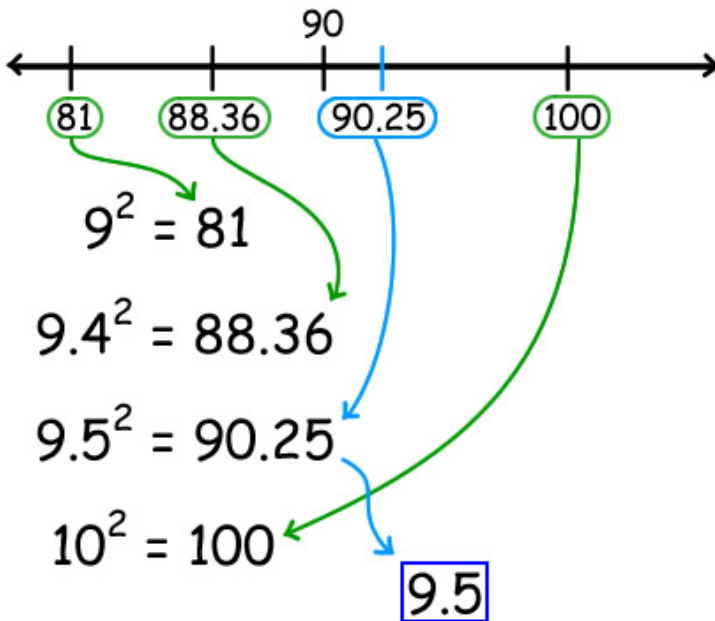
Ask Question ▶

A square pool has an area of 90 square meters. Find the length of its side. Round to the nearest tenth.

Question



Answer



1. Basic Math for Algebra

- [Adding real numbers](#)
- [Subtracting real numbers](#)
- [Multiplying signed numbers and f...](#)
- [Dividing signed numbers and frac...](#)
- [Percentages](#)
- [Ratios and scale](#)
- [Rates and conversion](#)
- [Exponents and powers](#)
- [Square roots](#)
- [Order of operations](#)
- [Simplify expressions](#)
- [Functions](#)

[Table of Contents](#)



Questions?
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Ask Question

Question
Solve using Order of operation: $10 \div 5 \times 4$.

Answer

$$10 \div 5 \times 4$$

$$2 \times 4$$

$$8$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Solve $3 \times 4 - 5^2 + 1$.

Question

Answer

$$3 \times 4 - 5^2 + 1$$

$$3 \times 4 - 25 + 1$$

$$12 - 25 + 1$$

$$12 - 24$$

$$-12$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Solve $3^2 + 4 \div 2 \times 3$

Question

Answer

$$3^2 + 4 \div 2 \times 3$$

$$9 + 4 \div 2 \times 3$$

$$9 + 2 \times 3$$

$$9 + 6$$

$$15$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Solve $3[2 - (3 - 6) \times 2]$

Question

Answer

$$3[2 - (3 - 6) \times 2]$$

$$3[2 - (-3) \times 2]$$

$$3[2 - (-6)]$$

$$3(2 + 6)$$

$$3 \times 8$$

$$24$$

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Question

$$\text{Solve } (14 + 46) \div [(2 + 8) \times 3]$$

Answer

$$(14 + 46) \div [(2 + 8) \times 3]$$

$$60 \div (10 \times 3)$$

$$60 \div 30$$

2

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Solve $3 \times \sqrt{85 - 4}$

Question

$$3 \times \sqrt{85 - 4}$$

$$3 \times \sqrt{81}$$

$$3 \times 9$$

$$27$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Use algebraic properties to make expressions simpler.
 $15 \frac{3}{6} + 12 + \frac{3}{6}$

Question

$$\begin{aligned} 15 \frac{3}{6} + 12 + \frac{3}{6} \\ \left(15 \frac{3}{6} + \frac{3}{6}\right) + 12 \\ 16 + 12 \end{aligned}$$

Answer

28

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Use algebraic properties to make expressions simpler.

$$4\frac{1}{4} + 5 - \frac{1}{4}$$

Question

$$4\frac{1}{4} + 5 - \frac{1}{4}$$

$$4\cancel{\frac{1}{4}} - \cancel{\frac{1}{4}} + 5$$

$$4 + 5$$

9

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Use algebraic properties to make expressions simpler.

$$\frac{1}{3} * 4 * \frac{1}{2} * 6$$

Question

$$\frac{1}{3} \times 4 \times \frac{1}{2} \times 6$$

$$\left(\frac{1}{2} \times 4\right) \times \left(\frac{1}{3} \times 6\right)$$

$$2 \times 2$$

Answer

4

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Use algebraic properties to make expressions simpler.

$$25 + 45 + 50 + 25$$

Question

$$25 + 45 + 50 + 25$$

$$(25 + 25) + 50 + 45$$

$$(50 + 50) + 45$$

$$100 + 45$$

$$\boxed{145}$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Use algebraic properties to make expressions simpler.

$$15 \star 12$$

Question

$$15 \times 12$$

$$15 \times (10 + 2)$$

$$15 \times 10 + 15 \times 2$$

$$150 + 30$$

$$180$$

Answer

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

Ask Question 

Use algebraic properties to make expressions simpler.
 $10 \times 9 \times \frac{1}{2} \times \frac{1}{3}$

Question

Answer

$$10 \times 9 \times \frac{1}{2} \times \frac{1}{3}$$
$$\left(10 \times \frac{1}{2}\right) \times \left(9 \times \frac{1}{3}\right)$$
$$5 \times 3$$

The diagram shows the simplification process. The original expression is $10 \times 9 \times \frac{1}{2} \times \frac{1}{3}$. It is then grouped into $(10 \times \frac{1}{2}) \times (9 \times \frac{1}{3})$. The first group simplifies to 5, and the second group simplifies to 3, resulting in 5×3 .

15

1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



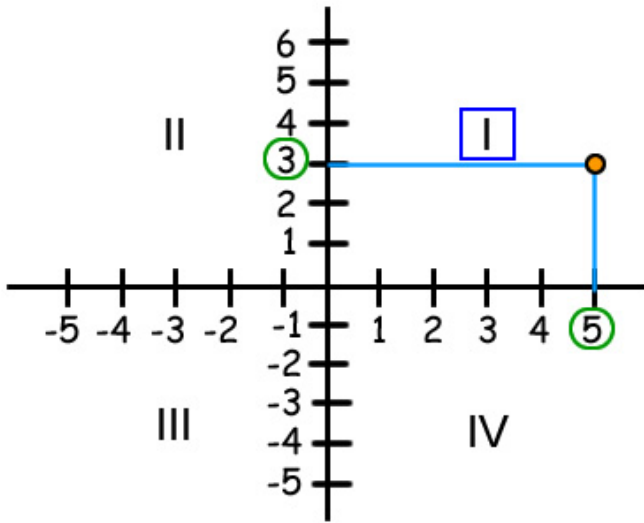
Questions?
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Ask Question

In which quadrant does the point $(5,3)$ lie?
Graph it.

Question

Answer



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

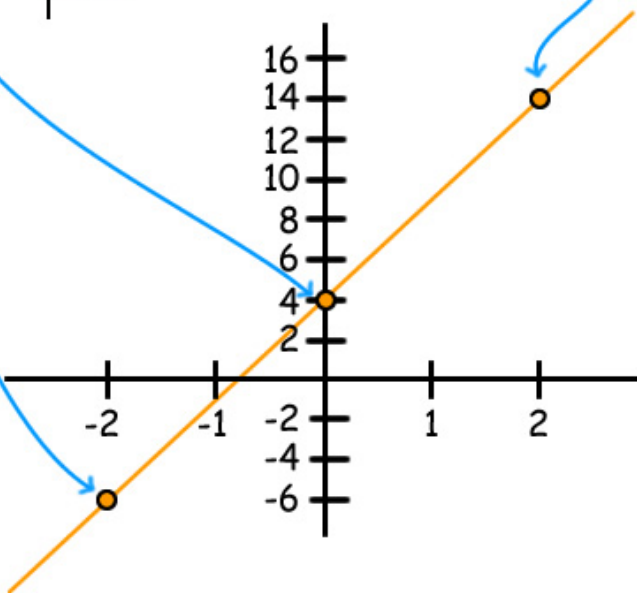
Ask Question

$Y = 5x + 4$. Create a table with ordered pairs and graph it.

Question

Answer

X	$Y = 5X + 4$
-2	$5(-2) + 4 = -10 + 4 = -6$
0	$5(0) + 4 = 0 + 4 = 4$
2	$5(2) + 4 = 10 + 4 = 14$



1. Basic Math for Algebra

- [Adding real numbers](#)
- [Subtracting real numbers](#)
- [Multiplying signed numbers and f...](#)
- [Dividing signed numbers and frac...](#)
- [Percentages](#)
- [Ratios and scale](#)
- [Rates and conversion](#)
- [Exponents and powers](#)
- [Square roots](#)
- [Order of operations](#)
- [Simplify expressions](#)
- [Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

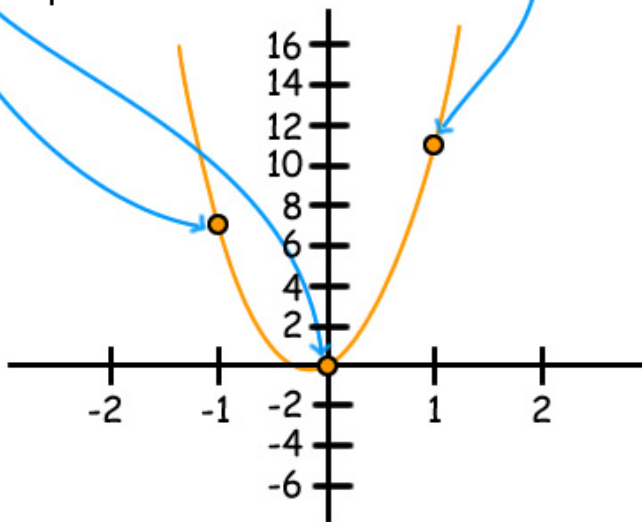
Ask Question ▶

$Y = 10x^2 + x$. Create a table with ordered pairs and graph it.

Question

Answer

X	$Y = 10X^2 + X$
-1	$10(-1)^2 + -1 = 10 - 1 = 9$
0	$10(0)^2 + 0 = 0 + 0 = 0$
1	$10(1)^2 + 1 = 10 + 1 = 11$



1. Basic Math for Algebra

- [Adding real numbers](#)
- [Subtracting real numbers](#)
- [Multiplying signed numbers and f...](#)
- [Dividing signed numbers and frac...](#)
- [Percentages](#)
- [Ratios and scale](#)
- [Rates and conversion](#)
- [Exponents and powers](#)
- [Square roots](#)
- [Order of operations](#)
- [Simplify expressions](#)
- [Functions](#)

[Table of Contents](#)



Questions?
Ask a live tutor now!

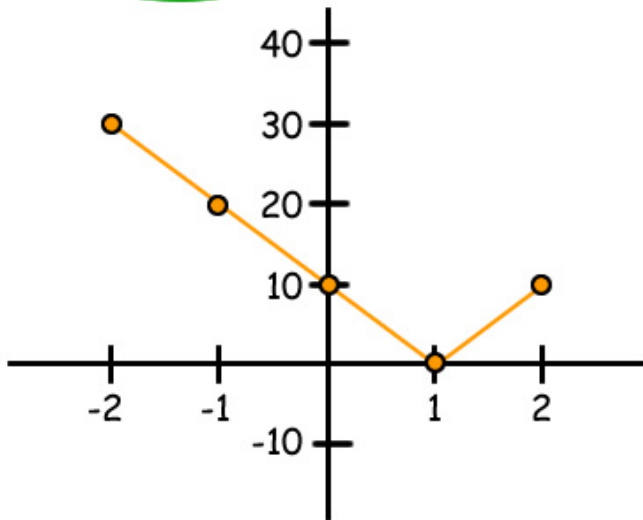
Ask Question

Question

$Y = |10 - 10x|$. Create a table with ordered pairs using $x = -2, -1, 0, 1$ and 2 . Graph it.

Answer

X	$Y = 10 - 10X $
-2	$ 10 - 10(-2) = 10 + 20 = 30$
-1	$ 10 - 10(-1) = 10 + 10 = 20$
0	$ 10 - 10(0) = 10 + 0 = 10$
1	$ 10 - 10(1) = 10 - 10 = 0$
2	$ 10 - 10(2) = 10 - 20 = 10$



1. Basic Math for Algebra

- [Adding real numbers](#)
- [Subtracting real numbers](#)
- [Multiplying signed numbers and f...](#)
- [Dividing signed numbers and frac...](#)
- [Percentages](#)
- [Ratios and scale](#)
- [Rates and conversion](#)
- [Exponents and powers](#)
- [Square roots](#)
- [Order of operations](#)
- [Simplify expressions](#)
- [Functions](#)

[Table of Contents](#)



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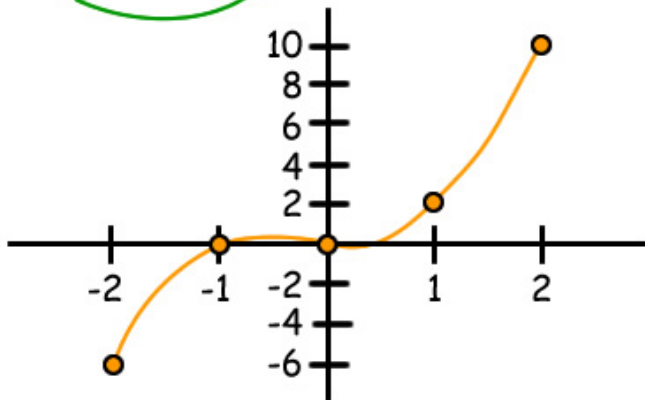
Ask Question ▶

$Y = x^3 + |x|$. Create a table with ordered pairs and graph it.

Question

Answer

X	$Y = X^3 + X $
-2	$(-2)^3 + (-2) = -8 + 2 = -6$
-1	$(-1)^3 + (-1) = -1 + 1 = 0$
0	$(0)^3 + (0) = 0 + 0 = 0$
1	$(1)^3 + (1) = 1 + 1 = 2$
2	$(2)^3 + (2) = 8 + 2 = 10$



1. Basic Math for Algebra

- [Adding real numbers](#)
- [Subtracting real numbers](#)
- [Multiplying signed numbers and f...](#)
- [Dividing signed numbers and frac...](#)
- [Percentages](#)
- [Ratios and scale](#)
- [Rates and conversion](#)
- [Exponents and powers](#)
- [Square roots](#)
- [Order of operations](#)
- [Simplify expressions](#)
- [Functions](#)

[Table of Contents](#)



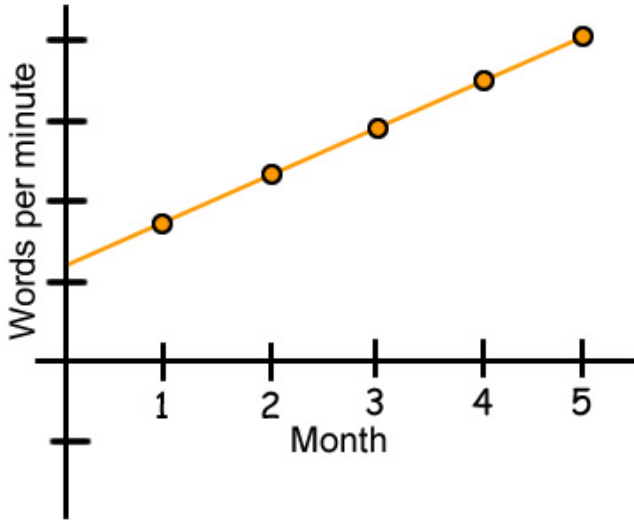
Questions?
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Ask Question

Annie is learning to type. She takes a 5 month class. She counts the amount of words she can type per minute. Each month she types faster. Sketch a graph.

Question

Answer



1. Basic Math for Algebra

[Adding real numbers](#)

[Subtracting real numbers](#)

[Multiplying signed numbers and f...](#)

[Dividing signed numbers and frac...](#)

[Percentages](#)

[Ratios and scale](#)

[Rates and conversion](#)

[Exponents and powers](#)

[Square roots](#)

[Order of operations](#)

[Simplify expressions](#)

[Functions](#)

[Table of Contents](#)