



**THIRD SPACE  
LEARNING**

# Evaluate the Expression Worksheet

Algebra

**Grades 6 to 8**

## Skill Questions

Name: .....

Date: .....

1 Evaluate the expression.

$$4 \times 5 \div 4$$

Answer

2 Evaluate the expression.

$$2 + 4 \times 4$$

Answer

3 Evaluate the expression.

$$5 \times 0.8 - 3$$

Answer

4 Evaluate the expression.

$$0.6 \times 0.5 + 0.3$$

Answer

5 Evaluate the expression.

$$\frac{1}{2} - \frac{1}{4} \div \frac{2}{3}$$

Answer

## Evaluate the Expression Worksheet | Grades 6 to 8

6 Evaluate the expression.

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

Answer

7 Evaluate the expression.

$$\frac{1}{2} \div 1 - \frac{1}{4}$$

Answer

8 Evaluate the expression for  $d = 2$ .  $d^2 = \underline{\hspace{2cm}}$

Answer

9 Evaluate the expression for  $u = 1$ .  $16u^2 = \underline{\hspace{2cm}}$

Answer

10 Evaluate the expression for  $x = 4$  and  $y = 2$ .

$$3x + 2y - (5x - y)$$

Answer

## Applied Questions

- 11** The Protect-a-Phone factory makes cell phone cases, packs them into boxes, and ships them by truck. A truck that leaves the factory with  $b$  boxes carries  $40b$  cell phone cases. This morning, a truck left the factory with 90 boxes. How many cell phone cases was the truck carrying?

Answer

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- 12** The perimeter of a regular octagon with side  $s$  is  $8s$ . Kiera is making a planter shaped like an octagon to surround the base of her favorite oak tree. Each side of the planter will be 9 inches long. What is the perimeter of the planter?

Answer

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- 13** Every Wednesday, Wayne works out for  $\frac{3}{4}$  of an hour at the fitness center. Every Saturday, he goes to the fitness center again and exercises for 3 times as long. How much time does Wayne spend at the fitness center each week?

Answer

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## Evaluate the Expression Worksheet | Grades 6 to 8

- 14 Edwin has  $3\frac{1}{2}$  gallons of green paint. He uses  $\frac{2}{3}$  of the paint to paint his bedroom. He uses the rest of the paint for a mural in his garage. How much paint does Edwin use for the mural?

Answer

- 15 After a blizzard, Zeke shovels snow from the sidewalk in front of his house. The sidewalk is  $20\frac{1}{2}$  yards long. Before breakfast, Zeke shovels  $\frac{1}{4}$  of the sidewalk. How many yards are left for Zeke to shovel after breakfast?

Answer

## Answers

Question number	Question	Answers	Standard
1	Evaluate the expression. $4 \times 5 \div 4$	5	6.EE.A.1
2	Evaluate the expression. $2 + 4 \times 4$	18	6.EE.A.1
3	Evaluate the expression. $5 \times 0.8 - 3$	1	6.EE.A.2c
4	Evaluate the expression. $0.6 \times 0.5 + 0.3$	0.6	6.EE.A.2c
5	Evaluate the expression. $\frac{1}{2} - \frac{1}{4} \div \frac{2}{3}$	$\frac{1}{8}$	6.EE.A.2c
6	Evaluate the expression. $1 + \frac{1}{4} \times \frac{1}{5}$	$1\frac{1}{20}$	7.EE.A.1
7	Evaluate the expression. $\frac{1}{2} \div 1 - \frac{1}{4}$	$\frac{1}{4}$	7.EE.A.1
8	Evaluate the expression for $d = 2$ . $d^2 = \underline{\hspace{1cm}}$	4	7.EE.A.1
9	Evaluate the expression for $u = 1$ . $16u^2 = \underline{\hspace{1cm}}$	16	7.EE.A.1
10	Evaluate the expression for $x = 4$ and $y = 2$ . $3x + 2y - (5x - y)$	-2	7.EE.A.1

## Evaluate the Expression Worksheet | Grades 6 to 8 | Answers




Question number	Question	Answers	Standard
11	The Protect-a-Phone factory makes cell phone cases, packs them into boxes, and ships them by truck. A truck that leaves the factory with $b$ boxes carries $40b$ cell phone cases. This morning, a truck left the factory with 90 boxes. How many cell phone cases was the truck carrying?	3,600 cases	6.EE.A.1
12	The perimeter of a regular octagon with side $s$ is $8s$ . Kiera is making a planter shaped like an octagon to surround the base of her favorite oak tree. Each side of the planter will be 9 inches long. What is the perimeter of the planter?	72 inches	6.EE.A.2c
13	Every Wednesday, Wayne works out for $\frac{3}{4}$ of an hour at the fitness center. Every Saturday, he goes to the fitness center again and exercises for 3 times as long. How much time does Wayne spend at the fitness center each week?	3 hours	7.EE.A.1
14	Edwin has $3\frac{1}{2}$ gallons of green paint. He uses $\frac{2}{3}$ of the paint to paint his bedroom. He uses the rest of the paint for a mural in his garage. How much paint does Edwin use for the mural?	$1\frac{1}{6}$ gallons	7.EE.A.1
15	After a blizzard, Zeke shovels snow from the sidewalk in front of his house. The sidewalk is $20\frac{1}{2}$ yards long. Before breakfast, Zeke shovels $\frac{1}{4}$ of the sidewalk. How many yards are left for Zeke to shovel after breakfast?	$15\frac{3}{8}$ yards	7.EE.A.1

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