# tutorified

# 4.OA.A.3 Finding the Values of Expressions

4.OA.A.3: Solve multistep word problems posed with whole numbers using the four operations.

- 1. Find the value of the expression. Follow the order of operations.
  - a. 20 (12 8)
  - b. (18-x)-(12-y) if x = 6 and y = 3
  - c. 15 (z + 8) if z = 3
  - d. (p-5)-(1+q) if p=8 and q=2
  - e. (a + b) + 10 if a = 5 and b = 4
  - f. m (9 + n) if m = 20 and n = 10
- 2. Write an expression and find the value of the expression.
  - a. Tina has 15 pens. She gives 5 pens to Karen and 3 pens to Paula. How many pens does Tina have now?
  - b. Justin had \$60. He spent \$12 on pants and \$28 on a pair of shoes. How much money does he have now?
- 3. Guess the value of the variable if the value of the expression is 5.
  - a. x + 3
  - b. 15 4 y
  - c. 8 + z + 5
- 4. Write an expression using a variable. What does the variable represent? If the value of the variable is 5, evaluate the expression.
  - a. Dan planted 10 trees. His classmates planted some
  - b. Cecile had 8 pairs of sneakers. She gave some to her sister.
  - c. Margaret bought a bag for \$4. She also bought a dress.
- 5. 15 + (x 2) = 20. What is the value of x?
  - A. 4
- B. 3
- C. 5
- D. 7
- 6. Which is the value of the expression below if  $\mathbf{u} = 8$  and  $\mathbf{v} = 7$ ?  $18 \mathbf{u} + (\mathbf{v} 4)$ 
  - A. 12
- B. 11
- C. 14
- D. 13

### Solution:

- a.
- b. \_\_\_\_
- c.
- d.
- e.
- f.

#### Solution:

- a.
- b.

## Solution:

- a.
- h
- c.

## Solution:

- a.
- h.
- C

### Solution:

Solution:

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**Answer Key** 

- 1. Find the value of the expression. Follow the order of operations.
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- 2. Write an expression and find the value of the expression.
  - a. Tina has 15 pens. She gives 5 pens to Karen and 3 pens to Paula. How many pens does Tina have now?
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- 3. Guess the value of the variable if the value of the expression is 5.
  - a. x + 3
  - b. 15 4 y
  - c. 8 + z + 5
- 4. Write an expression using a variable. What does the variable represent? If the value of the variable is 5, evaluate the expression.
  - a. Dan planted 10 trees. His classmates planted some more trees
  - b. Cecile had 8 pairs of sneakers. She gave some to her sister.
  - c. Margaret bought a bag for \$4. She also bought a dress.
- 5. 15 + (x 2) = 20. What is the value of x?
  - A. 4
- B. 3
- C. 5
- D. 7
- 6. Which is the value of the expression below if  $\mathbf{u} = 8$  and  $\mathbf{v} = 7$ ?  $18 \mathbf{u} + (\mathbf{v} 4)$ 
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# Solution:

- a. 20 4 = 16
- b. 12 9 = 3
- c. 15-11=4
- d. 3-3=0
- e. 9 + 10 = 19
- f. 20 19 = 1

### Solution:

- 15 5 3 = 10 3 = 7
- a. Answer: 7 pens
- 60 (12 + 28) = 60 40 = 20
- b. Answer: \$20

# Solution:

- a.
- b. 11 5 = 6
- c. 13 + 5 = 18

#### Solution:

- 10 + t; t = more trees planted
- a. 10 + 5 = 15; Ans: 15 trees
  - 8 + s; s = sneakers
- b. 8 + 5 = 13; Ans: 13 sneakers
  - 4 + d; d = dress
- c. 4 + 5 = 9; Ans: 9 dresses

### Solution:

D. 7

#### Solution:

D. 13