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## 4.OA.A.3 Evaluating Expressions and Order of Operations

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

1. Find the value of each expression.
a. $\quad 2 \boldsymbol{h} \div 4-3 \times 2 \quad$ if $\boldsymbol{h}=16$
b. $\quad 15+(2 \boldsymbol{k}-5) \div 3 \quad$ if $\boldsymbol{k}=10$
c. $\quad(5+5 \boldsymbol{d}) \div 8+2 \times 14 \div \boldsymbol{d} \quad$ if $\boldsymbol{d}=7$
d. $3 \times(9-21 \div 3)-s \div 6 \quad$ if $s=12$

## Solution:

a. $\qquad$
b. $\qquad$
c.
d. $\qquad$
2. Find the value of each expression.
a. $\quad 70+(36 \div 6)-14$
b. $3+2 \div(8-6)+19$
c. $40 \div(4+3 \times 2)+72 \div 8$
d. $6 \times(21 \div 3)-30$

## Solution:

a.
b.
c.
d. $\qquad$
3. Vince bought 2 sodas for $\$ 5$ each. His friend, Mar, bought Solution: their meals for $\$ 18$. They divided the cost of the sodas and meals. How much did each of them pay?
4. Write a word problem that matches the expression $(50-10) \div 5$.

Solution:
5. What is the value of the expression $50-(5 a+16)$ if $\boldsymbol{a}=3$ ?
A. 51
B. 29
C. 81
D. 19

Solution:

## Solution:

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b. $\quad 15+(2 \boldsymbol{k}-5) \div 3 \quad$ if $\boldsymbol{k}=10$
c. $\quad(5+5 \boldsymbol{d}) \div 8+2 \times 14 \div \boldsymbol{d} \quad$ if $\boldsymbol{d}=7$
d. $3 \times(9-21 \div 3)-s \div 6 \quad$ if $s=12$

## Solution:

a. $2(16) \div 4-6=32 \div 4-6=2$
b. $15+(20-5) \div 3=15+5=20$
c. $40 \div 8+2 \times 2=5+4=9$
d. $3 \times 2-2=6-2=4$
2. Find the value of each expression.
a. $30+(36 \div 6)-14$
b. $3+2 \div(8-6)+19$
c. $40 \div(4+3 \times 2)+72 \div 8$
d. $6 \times(21 \div 3)-30$

## Solution:

a. $30+6-14=22$
b. $3+2 \div 2+19=3+1+19=23$
c. $40 \div 10+9=4+9=13$
d. $6 \times 7-30=42-30=12$
3. Vince bought 2 sodas for $\$ 5$ each. His friend, Mar, bought Solution: their meals for $\$ 18$. They divided the cost of the sodas and meals. How much did each of them pay?
$(2 \times 5+18) \div 2=28 \div 2=14$
Answer: $\$ 14$ each
4. Write a word problem that matches the expression $(50-10) \div 5$.

Solution: (Answers may vary.)
10 of Byron's stamps are arranged in a row. The rest of his stamps are arranged in groups of five. If he has a total of 50 stamps, how many rows of five stamps are there?
5. What is the value of the expression $50-(5 a+16)$ if $\boldsymbol{a}=3$ ?
A. 51
B. 29
C. 81
D. 19
6. Charlie saves $\$ 4$ every day for 8 days. He spent $\$ 11$ from his savings. Which is the correct expression for the problem?
A. $4 \times 8+11$
B. $8 \times 4-11$
C. $11-4 \times 8$
D. $8 \times 4 \times 11$
7. Which expression has a value of 9 ?
A. $6 \div 2 \times 3$
C. $6 \times 3 \div 3$
B. $6 \times 2 \times 3$
D. None of the above

## Solution:

D. 19

## Solution:

B. $8 \times 4-11$

## Solution:

A. $6 \div 2 \times 3$

