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## 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. $\quad 15-(z+8)$ if $z=3$
d. $\quad(p-5)-(1+q)$ if $p=8$ and $q=2$
e. $\quad(a+b)+10$ if $a=5$ and $b=4$
f. $\quad \mathrm{m}-(9+\mathrm{n})$ if $\mathrm{m}=20$ and $\mathrm{n}=10$
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. $15-4-\mathrm{y}$
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 $\mathbf{v}=7 ? 18-u+(v-4)$
A. 12
B. 11
C. 14
D. 13

## Solution:

a.
b.
c.
d.
e.
f.

## Solution:

a. $\qquad$
b. $\qquad$

## Solution:

a.
b.
c.

## Solution:

a. $\qquad$
b. $\qquad$
c. $\qquad$

## Solution:

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## Solution:

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

## Solution:

$$
15-5-3=10-3=7
$$

a. $\frac{\text { Answer: } 7 \text { pens }}{60-(12+28)=60-40=20}$
b. Answer: $\$ 20$

## Solution:

a. 8
b. $\quad 11-5=6$
c. $\quad 13+5=18$

## Solution:

$$
10+\mathrm{t} ; \mathrm{t}=\text { more trees planted }
$$

a.

$$
\frac{10+5=15 ; \text { Ans: } 15 \text { trees }}{8+\mathrm{s} ; \mathrm{s}=\text { sneakers }}
$$

b. $\frac{8+5=13 ; \text { Ans: } 13 \text { sneakers }}{4+\mathrm{d} ; \mathrm{d}=\text { dress }}$
c. $4+5=9$; Ans: 9 dresses

## Solution:

D. 7

## Solution:

D. 13

