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## 4.OA.A.3 Simple Expressions and Problem Solving

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. $\quad 10-(6+1)$
b. $3+(2 \times 8)$
c. $(7 \times 3)+(9-3)$
d. $(36-12) \div(3+6-3)$
e. $(42 \div 7) \times(8-2 \times 3)$
f. $(20-15) \times(13-5) \times 2$
g. $5 \times(3+4-2)$
h. $(63 \div 7) \div(11-4 \times 2)$
2. Use parentheses to make the sentence true.
a. $\quad 12+8 \div 1+4=4$
b. $3 \times 6-8+6 \div 7=16$
c. $16+2 \div 9=2$
d. $12 \div 2+1+3=7$
3. Write an expression and find the value of the expression.
a. Bella has 12 dresses on her closet. 5 of them are white and 3 are red. The rest of the dresses are yellow. How many yellow dresses does Bella have?
b. A bus travelled 12 miles per hour for two hours in the morning and 10 miles per hour for 3 hours in the afternoon. How far did the bus travel?
c. Earl had 4 bills of $\$ 5$. He bought 4 pencils for $\$ 2$ each. He also bought 2 boxes of crayons for $\$ 4$ each. He paid $\$ 1$ in sales tax. How much money does he have now?
d. Sandra has $\$ 8$. She spent $\$ 3$ but then given $\$ 5$ by her mother. How much money does Sandra have now?
4. Write a word sentence that matches each expression.

$$
\begin{array}{ll}
\text { a. } & 6 \times(10+2) \\
\text { b. } & 3+(4 \times 5)
\end{array}
$$

## Solution:

a.
b.
c.
d.
e.
f.
g.
h. $\qquad$

## Solution:

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

## Solution:

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

## Solution:

a.
b. $\qquad$

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## 4.OA.A. 3 Simple Expressions and Problem Solving

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

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d. Sandra has $\$ 8$. She spent $\$ 3$ but then given $\$ 5$ by her mother. How much money does Sandra have now?
4. Write a word sentence that matches each expression.
a. $\quad 6 \times(10+2)$
b. $3+(4 \times 5)$

## Solution:

a. $\quad 10-7=3$
b. $3+16=19$
c. $21+6=27$
d. $24 \div(9-3)=24 \div 6=4$
e. $6 \times(8-6)=6 \times 2=12$
f. $5 \times 8 \times 2=40 \times 2=80$
g. $5 \times(7-2)=5 \times 5=25$
h. $9 \div(11-8)=9 \div 3=3$

## Solution:

a. $(12+8) \div(1+4)=4$
b. $3 \times 6-(8+6) \div 7=16$
c. $(16+2) \div 9=2$
d. $12 \div(2+1)+3=7$

## Solution:

a. $\quad 12-5-3=7-3=4$ Answer: 4 yellow dresses
b. $(2 \times 12)+(3 \times 10)=24+30=$ 54; Answer: 54 miles
$(4 \times 5)-(4 \times 2)-(2 \times 4)-1=$
c. $20-8-8-1=12-8-1=$ $4-1=3$; Answer: $\$ 3$
d. $8-3+5=5+5=10$ Answer: \$10

## Solution:

a. 6 times the sum of 10 and 2
b. 3 added to the product of 4 and 5

