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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. 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. $12 + 8 \div 1 + 4 = 4$
 - 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.

a. $6 \times (10 + 2)$

b. $3 + (4 \times 5)$

Solu	ition:
a.	
b.	
c.	
d.	
e.	
f.	
g.	
h.	

Solution: a. b. c. d.

Solu	ition:
a.	
b.	
c.	
d.	
Solu	ition:
a.	
b.	

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Answer Key

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Solution:		
a.	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.	$3 \times 6 - (8 + 6) \div 7 = 16$	
с.	$(16+2) \div 9 = 2$	
d.	$12 \div (2+1) + 3 = 7$	

Solution:

a.
$$12-5-3=7-3=4$$

Answer: 4 yellow dresses

b.
$$(2 \times 12) + (3 \times 10) = 24 + 30 =$$

54; Answer: 54 miles

c.
$$(4 \times 5) - (4 \times 2) - (2 \times 4) - 1 =$$

 $20 - 8 - 8 - 1 = 12 - 8 - 1 =$
 $4 - 1 = 3$: 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