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## 4.OA.A.3 Evaluating Algebraic Expressions

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

1. Find the value of the expression if $\boldsymbol{h}=3$.
a. $\quad 3 \boldsymbol{h}-(21 \div 3-2 \times 2)$
b. $10+(\boldsymbol{h}-2)$
c. $(2 \times 4-12 \div 3)-\boldsymbol{h} \div 3$
d. $(9+4 \boldsymbol{h} \div 6)+3 \times 4$
2. Find the value of each expression.
a. $5+(15 \div 3) \times 5 \div 5$
b. $3 \times 8 \div(9-3)+8$
c. $4 \times(3 \times 2)+20 \div 4$
d. $3 \times(14 \div 7)+9$

## Solution:

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

## Solution:

a. $\qquad$
b. $\qquad$
c. $\qquad$
d. $\qquad$
3. Solve the problems using an expression.
a. Simon practiced shooting for 3 hours on Thursday. On Friday, he practiced double the number of hours he practiced on Thursday. On Saturday, he practiced a total of 7 hours. How many hours did he practice shooting in total in all three days?
b. Beth and Miguel sold 52 lemonades together in a

## Solution:

a.
b. week. Beth sold 35 lemonades. How many lemonades did Miguel sell?
4. What is the value of expression $8 \boldsymbol{y}-(3 \times 5+4)$ if $\boldsymbol{y}=5$ ?
A. 11
B. 18
C. 21
D. 25

Solution:

## Solution:

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## Solution:

a. $9-(7-4)=9-3=6$
b. $10+1=11$
c. $8-4-1=4-1=3$
d. $(9+12 \div 6)+12=9+2+12=23$
3. Solve the problems using an expression.
a. Simon practiced shooting for 3 hours on Thursday. On Friday, he practiced double the number of hours he practiced on Thursday. On Saturday, he practiced a total of 7 hours. How many hours did he practice shooting in total in all three days?
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## Solution:

a. $3+(2 \times 3)+7=$
$3+6+7=9+7=16$
Answer: 16 hours
b. $\quad 52-35=17$

Answer: 17 lemonades
4. What is the value of expression $8 \boldsymbol{y}-(3 \times 5+4)$ if $\boldsymbol{y}=5$ ?
A. 11
B. 18
C. 21
D. 25

## Solution:

C. 21
5. Jacob had 80 cents. He gave two quarters and a dime to his brother. Which expression shows the number of cents that Jacob has now?
A. $80-(2 \times 25+10)$
B. $(80-2) \times 25+10$
C. $80-25-25+10$
D. $80-25 \times 2+10$
6. Which expression has a value of 90 ?
A. $30+3 \times 7+3 \times 15$
B. $30-3 \times 5+3 \times 15$
C. $30+(3 \times 5)+3 \times 15$
D. $30-3 \times 5-(3 \times 15)$

## Solution:

C. $30+(3 \times 5)+3 \times 15$

