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5.OA.A.1 Solving Numerical Expressions

5.OA.A.1: Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.

1. Simplify the following expressions.

   a. $10 + (25 - 10) \div 5$
   b. $4 \div [25 - (5 - 2)]$
   c. $\left(4\frac{1}{2} + 3\frac{1}{2}\right) \div \left(\frac{7}{12} - \frac{1}{2}\right) \div 2$
   d. $4.5 \div 3 \times 5 - (3.2 + 1.14)$
   e. $\frac{2}{5} + 7 - \frac{1}{2} \times 8$

Solution:

a.
b.
c.
d.
e.

2. Solve the following algebraic expressions using the given value/s of the variable.

   a. $2(4p + 5y) - (3p + 7y)$ if p = 1; y = 2
   b. $3n \times \left(\frac{5}{n} - \frac{1}{3}\right)$ if n = 2
   c. $\frac{1}{2} \times (10m - 2) + 3 \times 2$ if m = $\frac{2}{3}$
   d. $\frac{1}{8} \times (2t + 1) + 5$ if t = $\frac{1}{2}$
   e. $m + \frac{(n-1)}{4} \div 5$ if m = $\frac{3}{4}$; n = 2

Solution:

a.
b.
c.
d.
e.

3. Use the expression $\mathbf{5m + 4 \times 2(m - 4)}$ to compute for the entrance fee for 3, 5, and 7 people. (In dollars)

Solution:

4. You bought a magazine for **$5** and four erasers for **$b** each. How much did you spent for magazine and erasers? Evaluate the expression if **b = 0.75**?

Solution:

5. Evaluate the expression $\frac{3p}{4} - \frac{p+2}{3} + \frac{p+2}{12}$ if **p = 3**. Choose the letter of the correct answer.

   a. 1
   b. 10
   c. $\frac{1}{6}$
   d. $\frac{7}{2}$

Solution:

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Answer Key

5.OA.A.1: Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.

1.
   a. 13
   b. 0.18 or 2/11
   c. 48
   d. 3.16 or 3 4/25
   e. 3.4 or 3 2/5
2.
   a. 11
   b. 13
   c. 8 1/3 or 8.3
   d. 5 1/4 or 5.25
   e. 4/5 or 0.8
3. $7; $33; $59
4. $8
5. A