

Warmup

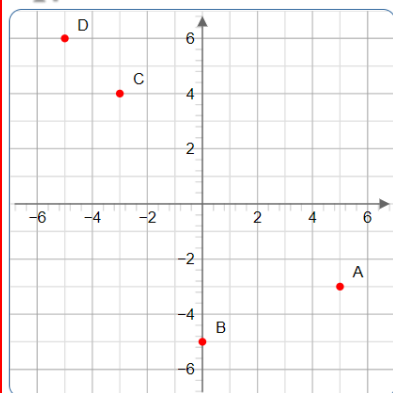
1. Find the area of the rectangle with length = 3.5 meters and width = 2 meters using the formula $A = lw$.

2. Evaluate each expression for $x = -5$, $y = -2$, and $z = 8$

$$x+z \quad y-z \quad x-z \quad z-x$$

3. Solve and Check
 $z + 8.75 = 11$

4. Give the (x,y) value of each point



A: _____

B: _____

C: _____

D: _____

5. Write $\frac{70}{105}$ in simplest form using prime factorization or the GCF

6. Fill in the missing values using the distributive property.

$$6(2 + 3) = 6(\underline{\quad}) + 6(\underline{\quad})$$

7. Write the order of operations.

I. Expand Algebraic Expressions using the Distributive Property

Simplify using the distributive property: $5(4) - 3(4) = (\underline{\quad} - \underline{\quad})(4)$

Simplify using the distributive property:

$$\begin{array}{c} 5x - 3x \\ (\underline{\quad} - \underline{\quad})x \\ \underline{\quad\quad\quad}x \end{array}$$

Simplify using the distributive property:

$$7(x + 3) = 7(x) + 7(3)$$

Expand using the distributive property:

$$3(y - 1)$$

Expand using the distributive property:

$$5 (t - 8)$$

Expand using the distributive property:

$$4 (s + 6)$$

8. Expand using the distributive property:

$$9 (s + 4)$$

9. Expand using the distributive property:

II. Simplify Algebraic Expressions using the Distributive Property

Simplify using the distributive property:

$$7x - 9x$$

Simplify using the distributive property:

$$6y + 3y$$

10. Simplify:

$$2s + 5s$$

11. Simplify:

$$8w - 7w$$

Simplifying Expressions :

Use the distributive property to add or subtract like-variables.

$$2s + 5s = (2+5) s = 7s$$

Simplify using the order of operations.

$$2^3 - 20$$

$$(4 - 9) + 100$$

Parentheses

Exponents

Multiplication or Division

Addition or Subtraction

III. Simplifying Expressions with Integers

Simplify:

$$-2x + 8x$$

Simplify:

$$9y - 10y$$

Simplify:

$$-3z + -6z$$

12. Simplify:

$$9b - -11b$$

Simplify:

$$3(2.5) - 10^2$$

13. Evaluate the expression if $c = 16$

$$2c + -10$$

14. Evaluate the Expression:

$$-5 + 6(7 + 8)$$

IV. Practice

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