

Bellwork: Algebra 1 Honors

1. Write down your work for the week in your planner.
2. You will need your composition book.
3. You may want to have 3 different color writing utensils today (pens or colored pencils).
4. Answer the following in your MONDAY section of your new bellwork sheet:

What property is shown below?

$$\frac{3}{4} \circ \frac{6}{6} = \frac{18}{24}$$

The fraction $\frac{6}{6}$ is circled in the original image, and an equals sign with the number 1 is written above it, indicating that $\frac{6}{6} = 1$.

identity
property of
multiplication

**LIKE
TERMS:**

- Same variable
- Same exponent
- Constants

$$\cancel{-2x} + \cancel{3} - \cancel{4x} + \cancel{5} - \cancel{4x^2} + \cancel{11} - \cancel{15x} + \cancel{2x^2} - \cancel{15}$$

$$\begin{array}{r} -4x^2 \\ 2x^2 \end{array}$$

$$\begin{array}{r} -2x \\ -4x \\ -15x \\ - \end{array}$$

$$\begin{array}{r} 3 \\ 5 \\ 11 \\ -15 \end{array}$$

$$-2x^2 - 21x + 4$$

$$\cancel{x} + \cancel{2x} - 9 + \cancel{xy} - 2 - \cancel{3x} + \cancel{2xy} - 4 - \cancel{3yx}$$

$$\begin{array}{r} -3yx \\ 2yx \\ 1xy \end{array}$$

$$\begin{array}{r} 1x \\ 2x \\ -3x \end{array}$$

$$\begin{array}{r} -9 \\ -2 \\ -4 \end{array}$$

$$\emptyset$$

$$\emptyset$$

$$-15$$

$$4x + \cancel{yz} - 3 + 2x + \cancel{4xyz} - x + 8 + \cancel{2zy} - 9$$

$$4xyz$$

$$1yz \\ 2yz$$

$$4x \\ 2x \\ -1x$$

$$-3 \\ 8 \\ -9$$

$$4xyz + 3yz + 5x - 4$$

Find the perimeter



$$2x + 3 + x + 1 + 3x = 6x + 4$$

Distributive Property

$$A(B + C) = AB + AC$$

$$A(B - C) = AB - AC$$

$$A + (B + C) = A + B + C$$

$$A - (B + C) = A - B - C$$

$$A + (B - C) = A + B - C$$

$$A - (B - C) = A - B + C$$

Expression	What number(s) should be distributed?	Distribute	Combine Like Terms	Final Answer
$-2(x-3)$	-2	$-2x+6$	—	$-2x+6$
$5(x-4)+2x-3$	5	$5x-20$	$5x$ -20 $2x$ -3	$7x-23$
$3+2(x-5)$	2	$2x-10$	$2x$ -10 3	$2x-7$
$2-1(x+5)$	-1	$x-5$	x -5 2	$x-3$
$4(x+1)-5$	4	$4x+4$	$4x$ 4 -5	$4x-1$

—

$2 - (x - 9)$					
$3 - 2(x + 1) + 1(5x - 4)$	$-2, 1$	$-2x - 2$ $5x - 4$	$-2x$ $5x$	-2 -4 3	$3x - 3$
$-(x - x^2) - 2(5 - x) + 7$					
$-3x(x - 4) + 2 - (5 - x)$					
$-(x^2 - 3x + 2) - x(x - 4)$					