Expressions Mini-Quiz Review Sheet



Write the expression to represent the word phrases:

- A) The product of 9 and x
- 9 x
- B) The difference of 7 and x
-)-X
- C) 8 less than the quotient of x and 4
- ×/4 8
- D) Double the sum of 8 and x
- 2(8+x)

The length of a rectangle is 27 units. The width of the rectangle is w units. Write the expression representing the area and perimeter of the rectangle.

- A) Area: $\frac{27\omega}{}$ square units
- B) Perimeter: $2\omega + 54$ units $27 + \omega + 27 + \omega$

Evaluate the following expressions for x = -4 and y = 5.

- A) 2-x+8y 2-(-4)+8(5)=2+4+40=40
- B) 4(x-y)+x 4(-4)-5+(-4)=4(-9)-4=-36-4=(-40)
- c) $3y^2 x + (8 + x)^2$ $3(5)^2 (-4) + (8 + (-4))^2 = 3(25) + 4 + (4)^2$ 75 + 4 + 16

Simplify the expressions.

- A) 2x + 4x + 8 10x + 2 -4x 6
- B) $3x^2 + 7x 5x^2 + (-6)$ $-2x^2 + 7x 6$
- c) 9(3x-4)+4x 27x(-3)(+4x) 31x-30

Find the value of x for the following equations.

- A) 12(x-3) = -48 36 $\times = -4$
- B) -5(4n-2) = -20n + x $\times = |\bigcirc$