

Solve each equation or formula for the variable indicated

1)  $r = wp$  for  $p$  (drag and drop)

$$r = w p \quad ( \quad )$$

$$p = \underline{\quad}$$

Multiply  $w$  on both sides of the equation

Multiply  $p$  on both sides of the equation

$r$

Divide  $w$  on both sides of the equation

Divide  $p$  on both sides of the equation

$w$

2)  $fg - 9h = 10g$  for  $g$  (fill in the blanks)

$$fg - 9h = 10g$$

(given equation)

$$fg - 9h - \quad = 10g - \quad$$

(subtraction property)

$$fg - 10g - 9h = 0$$

(simplify)

$$fg - 10g - 9h + \quad = 0 + \quad$$

(addition property)

$$fg - 10g =$$

(simplify)

$$g ( \quad - \quad ) = 9h$$

(distributive property)

$$g = \underline{\quad}$$

(division property)

3) **RECTANGLES** The formula  $P = 2\ell + 2w$  represents the perimeter of a rectangle. In this formula,  $\ell$  is the length of the rectangle and  $w$  is the width.

a. Solve the formula for  $\ell$ .

b. Find the length when the width is 4 meters and the perimeter is 36 meters.

a)  $\ell = \underline{\hspace{2cm}}$

b)  $w = 4$  ,  $P = 36$  , then  $\ell =$