

Solve each equation or formula for the variable indicated

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

$$r = wp \quad (\quad)$$

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

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, ℓ is the length of the rectangle and w is the width.

a. Solve the formula for ℓ .

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 $\ell =$