

Solve each equation or formula for the variable indicated

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

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

$$p = \underline{\hspace{2cm}}$$

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)*

$$fg - 9h = 10g \quad \text{(given equation)}$$

$$fg - 9h - \underline{\hspace{2cm}} = 10g - \underline{\hspace{2cm}} \quad \text{(subtraction property)}$$

$$fg - 10g - 9h = 0 \quad \text{(simplify)}$$

$$fg - 10g - 9h + \underline{\hspace{2cm}} = 0 + \underline{\hspace{2cm}} \quad \text{(addition property)}$$

$$fg - 10g = \underline{\hspace{2cm}} \quad \text{(simplify)}$$

$$g(\underline{\hspace{2cm}} - \underline{\hspace{2cm}}) = 9h \quad \text{(distributive property)}$$

$$g = \underline{\hspace{2cm}} \quad \text{(division property)}$$

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.

- Solve the formula for ℓ .
- 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 $\ell =$