

$$\frac{\{7\}}{\{x-2\}} = k$$

Let's solve for k.

$$\frac{7}{x-2} = k$$

Step 1: Multiply both sides by x-2.

$$7 = kx - 2k$$

Step 2: Flip the equation.

$$kx - 2k = 7$$

Step 3: Factor out variable k.

$$k(x - 2) = 7$$

Step 4: Divide both sides by x-2.

$$\frac{k(x-2)}{x-2} = \frac{7}{x-2}$$
$$k = \frac{7}{x-2}$$

Answer:

$$k = \frac{7}{x-2}$$

Let's solve for x.

$$\frac{7}{x-2} = k$$

Step 1: Multiply both sides by x-2.

$$7 = kx - 2k$$

Step 2: Flip the equation.

$$kx - 2k = 7$$

Step 3: Add 2k to both sides.

$$kx - 2k + 2k = 7 + 2k$$

$$kx = 2k + 7$$

Step 4: Divide both sides by k.

$$\frac{kx}{k} = \frac{2k+7}{k}$$
$$x = \frac{2k+7}{k}$$

Answer:

$$x = \frac{2k+7}{k}$$