

# Finding the Whole (6.RP.3c)

Key

## Vocabulary

Percent - a ratio that compares a number to 100.

Part (is) - a small section of the item

Whole (of) - the entire item

is  
of

## Finding the Whole

Option 1: Scale (if possible)

Option 2: Cross-Products (Cross Multiply and Divide)

you choose!

Label the 3 numbers in a percent problem.  
(part, whole, percent)

25% percent of 200 whole is 50. part

## Guided Practice

Find the Whole.

1.) 10% of \_\_\_\_\_ is 8

part (top)

$\frac{10}{100} = \frac{1}{10}$   $\frac{1}{10} \times 8 = \frac{8}{10} = \frac{80}{100}$

80

(scale)

2.) 5% of \_\_\_\_\_ is 50

$\frac{5}{100} = \frac{1}{20}$   $\frac{1}{20} \times 50 = \frac{50}{20} = \frac{1000}{200}$

1000

(scale)

3.) 35 is 50% of what number?

$\frac{50}{100} = \frac{35}{x}$

$35 \times 100 = 3500$   
 $3500 \div 50 = 70$

70

(cross-products)

4.) 75% of what number is 12?

$\frac{75}{100} = \frac{12}{x}$

$12 \times 100 = 1200$   
 $1200 \div 75 = 16$

16

(cross-products)

5.) Is the total points possible (for a test) the part or the whole of the problem?

whole

## Partner Talk

150% of what number is 120

$\frac{150}{100} = \frac{120}{x}$

80

$120 \times 100 = 12,000$   
 $12,000 \div 150 = 80$

80

Rate Yourself - Are you ready to move on? Shade the section that applies.

