

Find each percent.

3. What percent of 60 is 15? _____

4. What percent of 100 is 5? _____

Feb 11-4:22 PM

Txtbk p. 166-167

Proportions & Percents

Day 21

$$\frac{\text{part}}{\text{whole}} = \frac{\%}{100}$$

Use for word problems

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$$

use for problems like 1-8 on p. 167

Feb 21-9:02 AM

① What ^x percent of 40 is 20?

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$$

$$\frac{20}{40} = \frac{x}{100}$$

$$40x = 2000$$

$$\frac{40x}{40} = \frac{2000}{40}$$

$$x = 50\%$$

Sep 25-5:19 AM

③ 20% of what # is 40?

$$\frac{\text{is}}{\text{of}} = \frac{\%}{100}$$

$$\frac{20}{x} = \frac{40}{100}$$

$$20x = 4000$$

$$\frac{20x}{20} = \frac{4000}{20}$$

$$x = 200$$

Sep 25-5:20 AM

⑤ 8% of 125 is what #?

is $\frac{X}{125} = \frac{8}{100}$ %
of

$$\frac{100X}{100} = \frac{1000}{100}$$

$X = 10$

Sep 25-5:20 AM

⑦ 15% of what # is 24?

$$\frac{24}{X} = \frac{15}{100}$$

$$15X = 2400$$

$$\frac{15X}{15} = \frac{2400}{15}$$

$X = 160$

Sep 25-5:20 AM

⑨ Carlos worked 31.5 hrs at a hospital as a volunteer. This represents 87.5% of his school's requirement for community service. How many hours does his school require for comm. service?

Part $\frac{31.5}{X} = \frac{87.5}{100}$
Whole

$$\frac{87.5X}{87.5} = \frac{3150}{87.5}$$

$X = 36 \text{ hours}$

Sep 25-5:20 AM

⑩ Juan earns a 5.5% commission on his bicycle sales. In Sept. he earned \$214.28 in commissions. What were his sales for the month?

commission $\frac{214.28}{X} = \frac{5.5}{100}$
Sales

$$\frac{5.5X}{5.5} = \frac{21,428}{5.5}$$

$X = \$3896$

Sep 25-5:22 AM

Solve.

$$\frac{x+2}{x-2} = \frac{4}{8}$$

Sep 25-8:07 AM