

The Percent Proportion

To solve a percent problem using a proportion, set up a ratio showing part to the whole and a ratio showing the percent.

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

Three types of problems:

1. When you are looking for the PERCENT:

What percent of 8 is 2?

$$\frac{2}{8} = \frac{x}{100}$$

2. When you are looking for the PART:

What number is 20% of 64?

$$\frac{20}{100} = \frac{x}{64}$$

3. When you are looking for the WHOLE:

5 is 30% of what number?

$$\frac{30}{100} = \frac{5}{x}$$

HOMEWORK 5.3

1. What percent of 40 is 15?	2. Find 5% of 80.	3. 45 is 60% of what number?
4. 46 is what percent of 69?	5. Find 55% of 120.	6. 11 is 44% of what number?
7. 19 is what percent of 20?	8. What number is 85% of 40?	9. 9 is 18% of what number?

10. In a recent season, the San Francisco Giants won 75 out of 162 games. What percent of their games did they win? Round to the nearest tenth if necessary.

11. On a recent round of golf, Shana made par on 15 out of 18 holes. On what percent of holes did Shana make par? Round to the nearest tenth if necessary.

12. On the written portion of her driving test, Sara answered 84% of the questions correctly. If Sara answered 42 questions correctly, how many questions were on the driving test?

13. In a certain small town, 65% of the adults are college graduates. How many of the 240 adults living in the town are college graduates?