

**15.6 & 15.3**

**Solving Percent Problems  
Using the Percent  
Proportion**

# Solving Percent Problems Using Fractions

Rules 1) \_\_\_\_\_

2) \_\_\_\_\_

1) **50% of 35**

2) **20% of 60**

# Solving Percent Problems Using Fractions

**3) 25% of 40**

**4) 60% of 120**

**5) 75% of 32**

# Solving Percent Problems Using Fractions

Rules 1) \_\_\_\_\_

2) \_\_\_\_\_

**6) 50% of what number is 75.**

**7) 75% of what number is 48**

# Solving Percent Problems Using Fractions

**8) 5% of what number is 10.**

# The Percent Proportion

In percent problems you are looking for...

the **PART** of something

the **WHOLE** of something

the **PERCENT** of something

**Look at the following, can you identify the following?**

**PART WHOLE PERCENT**

**1) 50% of 20 is 10.**

**2) 6 is 25% of 24.**

**3) 10% of 50 is 5.**

**4) 30 is 75% of 40.**

**In percent problems, in order to solve them, you have to be able to identify what you are trying to find and what is given to you.**

**In the following problems, what are you trying to find out? What is given to you?**

**PART**

**WHOLE**

**PERCENT**

**4) What is 50% of 20?**



**PART**

**WHOLE**

**PERCENT**

**5) What percent of 10 is 5?**

**6) 8 is 50% of what number?**

**PART**

**WHOLE**

**PERCENT**

**7) What is 50% of 60?**

**8) 20 is 50% of what number?**

# **Solving percent problems using proportions.**

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

**In percent problems, in order to solve them, you have to be able to identify what you are trying to find and what is given to you.**

**In the following problems, set the problems up in a proportion using the following info:**

**PART**

**WHOLE**

**PERCENT**

**4) What is 50% of 20?**

**PART**

**WHOLE**

**PERCENT**

**5) What percent of 10 is 5?**

**6) 8 is 50% of what number?**

**PART**

**WHOLE**

**PERCENT**

**7) What is 50% of 60?**

**8) 20 is 50% of what number?**

**Solve the following using proportions:**

**9) What is 76% of 25?**

**10) 42 is 30% of what number?**

**Solve the following using proportions:**

**11) What percent of 5 is 2?**

**12) What is 37% of 200?**