

NAME \_\_\_\_\_

**Module 7**     **Ratio, Proportion, and Percent**  
**Lesson 6**     **Using Percent Equations**

# Independent Practice

## 7.6

1. What is 75% of 400?
2. What is 160% of 30?
3. What is 15% of 450?
4. What is 80% of five?
5. What percent of 40 is 20?
6. What percent of 16 is 12?
7. Eight is what percent of 10?
8. What percent of 16 is 20?
9. 60% of what number is 18?
10. 15% of what number is 30?
11. 25 is 6.25% of what number?
12. 550% of what number is 55?

13. At this year's checkup, Sally's dog weighed 120% of what it did at last year's visit. Last year, Sally's dog weighed 35 pounds. How much does her dog weigh this year?
  
14. Duncan bought a fishing pole for \$30. This is 60% of what his dad paid for his fishing pole. How much did Duncan's dad pay for his fishing pole?
  
15. There are 40 questions on a test. To pass the test, Troy must answer at least 65% of the questions correctly. What is the greatest number of questions Troy can answer incorrectly and still pass the test?
  
16. In a school of 825 students, 495 of the students are girls. What percent of the students in the school are girls? What percent are boys?
  
17. Celina bought a CD with a coupon for 15% off. She paid \$20.40 for the CD. How much would she have paid without the coupon?
  
18. Thea answered 16 out of 25 test questions correctly. She needed to answer at least 65% of the questions correctly to pass. Did Thea pass the test? Why or why not?

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**Journal**

1. Explain the difference between the following two questions. Then, answer each question.

What percent of five is 10?  
What percent of 10 is five?

2. Describe how to use the percent proportion to answer: What is 250% of 10? Then, describe how you can use mental math to find the answer.
3. Describe how to use the percent proportion to answer: 20% of what number is 30? Then, describe how to find the answer by writing an equation.
4. Ron answered, “What percent of 20 is three?” and got 15%. How would you explain to Ron how he can check his answer?

**Cumulative Review**

**Evaluate.**

1.  $23^2 - \sqrt{100}$

2.  $\sqrt{64} + \sqrt{9}$

**Find the decimal and percent equivalents.**

3.  $\frac{17}{20}$

4.  $1\frac{1}{10}$

**Estimate.**

5. 18% of 195

6. 73% of \$1,099

7. Brittney raked nine bags of leaves in  $2\frac{1}{2}$  hours. What is the unit rate per hour?

8. Heidi ran 12 laps around the school in 10 minutes. Jena ran nine laps around the school in six minutes. Which of the two girls is running at a faster rate? Explain.

# Additional Work Area

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