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**Solve Percent Problems**

**(6.1 – 6.5)**

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**Write each percent as a fraction in simplest form and as a decimal.  
Show your work.**

1. 85%      simplified fraction: \_\_\_\_\_      decimal: \_\_\_\_\_

2. 270%      simplified fraction: \_\_\_\_\_      decimal: \_\_\_\_\_

**Multiple Choice: Circle the correct answer.**

3. Write the decimal 0.035 as a percent. Show your work.

A. 0.00035%


B. 0.35%

C. 3.5%

D. 35%

**Compare. Write  $<$ ,  $>$ , or  $=$ . Show your work.**

4.  45%

5. 9% 

**Find the percent of each number. Show your work.**

6. 16% of 85      6. \_\_\_\_\_

7. 11% of 300      7. \_\_\_\_\_

**Solve. Show your work.**

8. 8 is 20% of what number? 8. \_\_\_\_\_

9. 8.8 is what percent of 40? 9. \_\_\_\_\_

**Error analysis.**

10. Kyle and Laura were asked to solve this problem:

*What percent of 120 is 30?*

They each set the problem up differently. Who is correct? You're your work. Explain.

*Kyle's proportion:*

*Laura's equation:*

10. Who is correct? \_\_\_\_\_

Explain: \_\_\_\_\_

\_\_\_\_\_

**Multiple Choice: Circle the correct answer.**

11. Which fraction would you use to find the percent of change if 32 is increased to 67?

A. B. C. D.

**Find each percent of change. Show your work.**

12. 72 is decreased to 45 12. \_\_\_\_\_

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**Apply Percent to Real-Life Problems**

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**(6.1–6.5)**

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**Read and answer each question. Show your work.**

13. In a classroom of 25 students, 16 students were wearing tennis shoes. What percent of students were wearing tennis shoes? Show your work.

13. \_\_\_\_\_

14. What percent of students in all schools listed own a computer? Round to the nearest tenth place. Show your work.

School	Total Students	Number Student Owning A Computer
Madison	270	90
Garfield	100	56
Lincoln	150	110
Washington	500	125

14. \_\_\_\_\_

15. The Goode family donates 2% of their monthly income to charity. Last month they donated \$100 to charity. What was their income last month? Show your work.

15. \_\_\_\_\_

16. Home Depot sells a certain brand of lawn mower for \$275. Next year, the cost of the lawn mower will increase by 8%. What will be the cost of the lawn mower next year? Show your work.

16. \_\_\_\_\_

**Multiple Choice: Circle the correct answer.**

17. HyVee put the large boxes of chocolate Christmas trees on clearance on December 26<sup>th</sup> for 75% off of the original price. If the boxes of chocolate have an original price of \$9.00, what is the sale price? Show your work

- A. \$2.25
- B. \$8.25
- C. \$6.75
- D. \$0.75

18. World production of sports cars has increased from 58 million in 1999 to 60 million in 2000. What was the percent of increase (to the nearest whole percent)? Show your work

- A. 4%
- B. 1%
- C. 2%
- D. 3%