

Lesson Check

Do you know HOW?

1. What percent of 70 is 21?
2. What percent of 50 is 60?
3. What is 35% of 80?
4. 75% of what number is 36?
5. **Finance** How much interest will you earn by investing \$1200 at a simple interest rate of 2.5% per year for 6 years?

Do you UNDERSTAND?

6. **Vocabulary** Complete: $p\%$ is equivalent to a fraction with a numerator of p and a denominator of $\underline{\quad}$.
7. **Reasoning** You deposited money in a savings account paying 4% simple interest per year. The first year, you earned \$75 in interest. How much interest will you earn during the following year?
8. **Open-Ended** Give an example of a percent problem where the part is greater than the base.

Practice and Problem-Solving Exercises

Practice

Find each percent.

9. What percent of 75 is 15?
11. What percent of 16 is 10?
13. What percent of 48 is 20?

Find each part.

15. What is 25% of 144?
17. What is 12.5% of 104?
19. What is 125% of 12.8?

21. **Shopping** A tennis racket normally costs \$65. The tennis racket is on sale for 20% off. What is the sale price of the tennis racket?
22. **Hair Care** A beauty salon buys bottles of styling gel for \$4.50 per bottle and marks up the price by 40%. For what price does the salon sell each bottle?

Find each base.

23. 20% of what number is 80?
25. 60% of what number is 13.5?
27. 150% of what number is 34?

29. **Finance** You deposit \$1200 in a savings account that earns simple interest at a rate of 3% per year. How much interest will you have earned after 3 years?
30. **Finance** You deposit \$150 in a savings account that earns simple interest at a rate of 5.5% per year. How much interest will you have earned after 4 years?

← See Problems 1 and 2.

10. What percent of 15 is 75?
12. What percent of 32 is 40?
14. What percent of 88 is 88?

← See Problem 3.

16. What is 63% of 150?
18. What is 150% of 63?
20. What is 1% of 1?

← See Problem 4.

24. 80% of what number is 20?
26. 160% of what number is 200?
28. 1% of what number is 1?

← See Problem 5.