# Solving Percent Problems

| Name: _____ | Date: _____ | Score: _____ / 24 |
|---|---|---|

## Quick Review

There are three kinds of percent problems. **Finding the part**: to find $25\%$ of $80$, change the percent to a decimal and multiply: $0.25 \times 80 = 20$. **Finding the percent**: to find what percent $12$ is of $48$, divide the part by the whole and multiply by $100$: $\frac{12}{48} \times 100 = 25\%$. **Finding the whole**: if $30$ is $20\%$ of a number, divide the part by the decimal: $30 \div 0.20 = 150$. A helpful sentence to remember is "*part* is *percent* of *whole*."

◇ **Example:** What is $15\%$ of $200$?

⇒ This problem asks for the *part*. First, change $15\%$ into a decimal by dividing by $100$: $15\% = 0.15$. The word "of" tells us to multiply, so we compute $0.15 \times 200$. Multiplying gives $30$. A quick sense-check: $10\%$ of $200$ is $20$, and $15\%$ should be a bit more than that — $30$ fits nicely.

**Answer:** $30$

## PRACTICE

*Solve each percent problem.*

1. Find $25\%$ of $80$ _____
2. Find $10\%$ of $250$ _____
3. Find $40\%$ of $60$ _____
4. Find $15\%$ of $200$ _____
5. Find $75\%$ of $48$ _____
6. What percent of $48$ is $12$? _____
7. What percent of $36$ is $9$? _____
8. $30$ is $20\%$ of what number? _____
9. $18$ is $50\%$ of what number? _____
10. Find $5\%$ of $300$ _____
11. Find $80\%$ of $35$ _____
12. What percent of $20$ is $7$? _____
13. $45$ is $90\%$ of what number? _____
14. Find $12\%$ of $150$ _____
15. What percent of $28$ is $21$? _____
16. Find $30\%$ of $90$ _____
17. $24$ is $60\%$ of what number? _____
18. What percent of $50$ is $35$? _____
19. Find $8\%$ of $75$ _____
20. $16$ is $40\%$ of what number? _____

### ♦ Word Problems

21. A jacket costs \$$60$, and it is $25\%$ off. How much money is saved on the jacket? _____
22. Out of $40$ students, $30$ ride the bus. What percent of students ride the bus? _____
23. A team won $18$ games, which was $60\%$ of all the games they played. How many games did they play in all? _____
24. A water tank holds $250$ gallons when full. Right now it is $36\%$ full. How many gallons of water are in the tank? _____

# Answer Keys

| | |
|---|---|
| **1.** 20 | **13.** 50 |
| **2.** 25 | **14.** 18 |
| **3.** 24 | **15.** 75% |
| **4.** 30 | **16.** 27 |
| **5.** 36 | **17.** 40 |
| **6.** 25% | **18.** 70% |
| **7.** 25% | **19.** 6 |
| **8.** 150 | **20.** 40 |
| **9.** 36 | **21.** $15 |
| **10.** 15 | **22.** 75% |
| **11.** 28 | **23.** 30 games |
| **12.** 35% | **24.** 90 gallons |

## Step-by-Step Explanations

**1.** Change to a decimal and multiply: $0.25 \times 80 = 20$.
**2.** $10\%$ is $0.10$, and $0.10 \times 250 = 25$.
**3.** $40\%$ is $0.40$, and $0.40 \times 60 = 24$.
**4.** $15\%$ is $0.15$, and $0.15 \times 200 = 30$.
**5.** $75\%$ is $0.75$, and $0.75 \times 48 = 36$.
**6.** Divide part by whole: $\frac{12}{48} \times 100 = 25\%$.
**7.** Divide: $\frac{9}{36} \times 100 = 25\%$.
**8.** Divide the part by the decimal: $30 \div 0.20 = 150$.
**9.** $50\%$ is half, so the whole is $18 \div 0.50 = 36$.
**10.** $5\%$ is $0.05$, and $0.05 \times 300 = 15$.
**11.** $80\%$ is $0.80$, and $0.80 \times 35 = 28$.
**12.** Divide: $\frac{7}{20} \times 100 = 35\%$.
**13.** Divide the part by the decimal: $45 \div 0.90 = 50$.
**14.** $12\%$ is $0.12$, and $0.12 \times 150 = 18$.
**15.** Divide: $\frac{21}{28} \times 100 = 75\%$.
**16.** $30\%$ is $0.30$, and $0.30 \times 90 = 27$.
**17.** Divide the part by the decimal: $24 \div 0.60 = 40$.
**18.** Divide: $\frac{35}{50} \times 100 = 70\%$.
**19.** $8\%$ is $0.08$, and $0.08 \times 75 = 6$.
**20.** Divide the part by the decimal: $16 \div 0.40 = 40$.
**21.** Find $25\%$ of $60$: change to $0.25$ and multiply, $0.25 \times 60 = 15$. The savings are $\$15$.
**22.** Divide the part by the whole: $\frac{30}{40} = 0.75$. Then $0.75 \times 100 = 75\%$.
**23.** $18$ is $60\%$ of the whole, so divide: $18 \div 0.60 = 30$ games.
**24.** Find $36\%$ of $250$: $0.36 \times 250 = 90$ gallons.

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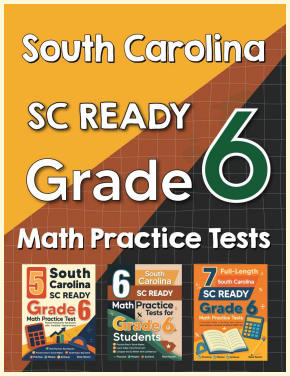


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