What Is a Percent?

Name: _____	Date: _____	Score: _____ / 24

Quick Review

A **percent** means "per hundred." Writing 45% is just another way of saying $\frac{45}{100}$. Because percents, fractions, and decimals all describe parts of a whole, you can switch between them. To change a **percent to a decimal**, divide by 100 (move the decimal point two places left): $45\% = 0.45$. To change a **decimal to a percent**, multiply by 100. To change a **fraction to a percent**, first make an equivalent fraction with 100 on the bottom, or divide and then multiply by 100. So $\frac{3}{4} = \frac{75}{100} = 75\%$.

◇ **Example:** Write $\frac{3}{4}$ as a percent.

⇒ A percent is a part out of 100, so let's rewrite $\frac{3}{4}$ with 100 on the bottom. We ask: what times 4 gives 100? That is 25. Whatever we do to the bottom we do to the top, so we multiply both by 25: $\frac{3\times25}{4\times25} = \frac{75}{100}$. And $\frac{75}{100}$ means 75 per hundred, which is 75%.

Answer: 75%

PRACTICE

Convert between percents, decimals, and fractions as shown.

1. Write 0.45 as a percent _____
2. Write $\frac{3}{4}$ as a percent _____
3. Write $\frac{1}{5}$ as a percent _____
4. Write 60% as a fraction _____
5. Write 0.08 as a percent _____
6. Write $\frac{7}{20}$ as a percent _____
7. Write 25% as a decimal _____
8. Write $\frac{9}{10}$ as a percent _____
9. Write 0.5 as a percent _____
10. Write 80% as a fraction _____
11. Write $\frac{2}{25}$ as a percent _____
12. Write 0.12 as a percent _____
13. Write 125% as a fraction _____
14. Write $\frac{1}{8}$ as a percent _____
15. Write 70% as a decimal _____
16. Write $\frac{3}{5}$ as a percent _____
17. Write 0.04 as a percent _____
18. Write 35% as a fraction _____
19. Write $\frac{11}{20}$ as a percent _____
20. Write 1.5 as a percent _____

♦ Word Problems

21. On a math quiz, Jordan answered $\frac{17}{20}$ of the questions correctly. What percent did Jordan get correct? _____
22. A phone battery is at 0.65 of a full charge. Write the battery level as a percent. _____
23. A store sign says 40% of all shirts are on sale. Write 40% as a fraction in simplest form. _____
24. In a survey, $\frac{3}{8}$ of students chose pizza as their favorite lunch. Write this as a percent. _____

Answer Keys

1. 45%
2. 75%
3. 20%
4. $\frac{3}{5}$
5. 8%
6. 35%
7. 0.25
8. 90%
9. 50%
10. $\frac{4}{5}$
11. 8%
12. 12%
13. $\frac{5}{4}$
14. 12.5%
15. 0.7
16. 60%
17. 4%
18. $\frac{7}{20}$
19. 55%
20. 150%
21. 85%
22. 65%
23. $\frac{2}{5}$
24. 37.5%

Step-by-Step Explanations

1. Multiply by 100: $0.45 \times 100 = 45\%$.
2. $\frac{3}{4} = \frac{75}{100} = 75\%$.
3. $\frac{1}{5} = \frac{20}{100} = 20\%$.
4. $60\% = \frac{60}{100}$, which simplifies to $\frac{3}{5}$.
5. Multiply by 100: $0.08 \times 100 = 8\%$.
6. $\frac{7}{20} = \frac{35}{100} = 35\%$.
7. Divide by 100: $25 \div 100 = 0.25$.
8. $\frac{9}{10} = \frac{90}{100} = 90\%$.
9. Multiply by 100: $0.5 \times 100 = 50\%$.
10. $80\% = \frac{80}{100}$, which simplifies to $\frac{4}{5}$.
11. $\frac{2}{25} = \frac{8}{100} = 8\%$.
12. Multiply by 100: $0.12 \times 100 = 12\%$.
13. $125\% = \frac{125}{100}$, which simplifies to $\frac{5}{4}$.
14. $\frac{1}{8} = 0.125$, and $0.125 \times 100 = 12.5\%$.
15. Divide by 100: $70 \div 100 = 0.7$.
16. $\frac{3}{5} = \frac{60}{100} = 60\%$.
17. Multiply by 100: $0.04 \times 100 = 4\%$.
18. $35\% = \frac{35}{100}$, which simplifies to $\frac{7}{20}$.
19. $\frac{11}{20} = \frac{55}{100} = 55\%$.
20. Multiply by 100: $1.5 \times 100 = 150\%$.
21. Rewrite $\frac{17}{20}$ with 100 on the bottom: $\frac{17 \times 5}{20 \times 5} = \frac{85}{100} = 85\%$.
22. To turn a decimal into a percent, multiply by 100: $0.65 \times 100 = 65\%$.
23. $40\% = \frac{40}{100}$. Dividing top and bottom by 20 gives $\frac{2}{5}$.
24. Divide to get a decimal: $3 \div 8 = 0.375$. Then $0.375 \times 100 = 37.5\%$.

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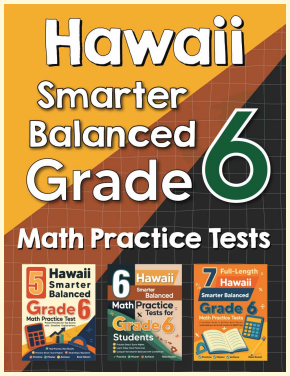

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