

What Is a Percent?

Name: _____ Date: _____ Score: _____ / 24

Q 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: $\frac{3 \times 25}{4 \times 25} = \frac{75}{100}$. And $\frac{75}{100}$ means 75 per hundred, which is 75%.

Answer: 75%

PRACTICE

Convert between percents, decimals, and fractions as shown.

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

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

Step-by-Step Explanations

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