

# 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.

- |                                      |       |                                        |       |
|--------------------------------------|-------|----------------------------------------|-------|
| 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

- |                                                                                                              |                                                                                                               |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 1. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">45%</span>                       | 13. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;"><math>\frac{5}{4}</math></span>  |
| 2. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">75%</span>                       | 14. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">12.5%</span>                     |
| 3. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">20%</span>                       | 15. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">0.7</span>                       |
| 4. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;"><math>\frac{3}{5}</math></span>  | 16. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">60%</span>                       |
| 5. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">8%</span>                        | 17. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">4%</span>                        |
| 6. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">35%</span>                       | 18. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;"><math>\frac{7}{20}</math></span> |
| 7. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">0.25</span>                      | 19. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">55%</span>                       |
| 8. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">90%</span>                       | 20. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">150%</span>                      |
| 9. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">50%</span>                       | 21. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">85%</span>                       |
| 10. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;"><math>\frac{4}{5}</math></span> | 22. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">65%</span>                       |
| 11. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">8%</span>                       | 23. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;"><math>\frac{2}{5}</math></span>  |
| 12. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">12%</span>                      | 24. <span style="border: 1px solid black; border-radius: 5px; padding: 2px;">37.5%</span>                     |

### Step-by-Step Explanations

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