

Ratios and Percents (pages 158–160)

A **percent** is a ratio that compares a number to 100.

<p>Expressing a Ratio as a Percent</p>	$\frac{n}{100} = n\%$ <p>To express a ratio as a percent, first write the ratio as a fraction with a denominator of 100. Then rewrite $\frac{n}{100}$ as $n\%$.</p>
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EXAMPLES

A Express as a percent: 37 students out of 100.

Write the ratio as a fraction: $\frac{37}{100}$.
 $\frac{37}{100}$ is 37%.

B Express \$12.25 per \$100 as a percent.

Write as a fraction: $\frac{\$12.25}{\$100}$.
 \$12.25 per \$100 is 12.25%.

Try These Together

1. Express as a percent: 32.5 square miles in 100.

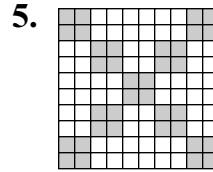
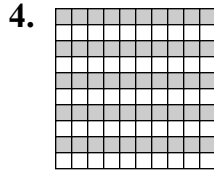
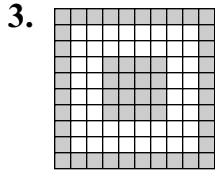
HINT: Write as a fraction with a denominator of 100.

2. Express $33\frac{1}{3}:100$ as a percent.

HINT: Recall that $\frac{n}{100} = n\%$.

PRACTICE

Write a percent to represent the shaded area.



Express each ratio as a percent.

6. 62 out of 100

7. 25:100

8. $\frac{12}{100}$

9. 65.2 to 100

10. \$55 per \$100

11. 38 cars out of 100

12. **Computers** 78 out of 100 computers at Tina's school have CD-ROM drives. Express 78 out of 100 as a percent.



13. **Standardized Test Practice** In Enrique's school, 61 out of every 100 students eat a hot lunch. Express this ratio as a percent.

A 3.9%

B 6.1%

C 61%

D 39%

<p>Answers: 1. 32.5% 2. $33\frac{1}{3}\%$ 3. 52% 4. 50% 5. 36% 6. 62% 7. 25% 8. 12% 9. 65.2% 10. 55% 11. 38% 12. 78%</p>
