

REVIEW: Percents and Fractions

Name _____

Key Concept and Vocabulary

$$35\% = \frac{35}{100} = \frac{\cancel{5} \cdot 7}{\cancel{5} \cdot 20} = \frac{7}{20}$$

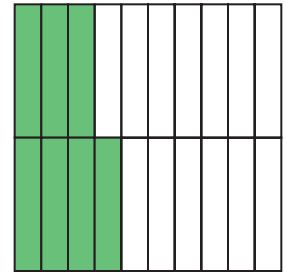
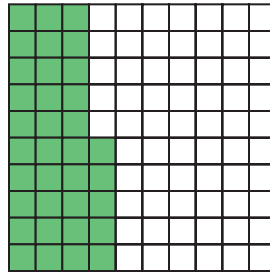
Write as a fraction.



Write percent as a fraction in simplest form.

Visual Model

$$35\% = \frac{7}{20}$$



Skill Examples

- $40\% = \frac{40}{100} = \frac{\cancel{20} \cdot 2}{\cancel{20} \cdot 5} = \frac{2}{5}$
- $50\% = \frac{50}{100} = \frac{\cancel{50} \cdot 1}{\cancel{50} \cdot 2} = \frac{1}{2}$
- $25\% = \frac{25}{100} = \frac{\cancel{25} \cdot 1}{\cancel{25} \cdot 4} = \frac{1}{4}$
- $5\% = \frac{5}{100} = \frac{\cancel{5} \cdot 1}{\cancel{5} \cdot 20} = \frac{1}{20}$

Application Example

5. Your school's softball team won 30% of its games. Did the team win more than one-fourth of its games?

$$30\% = \frac{30}{100} = \frac{3 \cdot \cancel{10}}{10 \cdot \cancel{10}} = \frac{3}{10} \quad \frac{3}{10} > \frac{1}{4}$$



- Yes, the team won more than one-fourth of its games.

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Check your answers at BigIdeasMath.com.

Write the percent as a fraction in simplest form.

6. $20\% = \frac{1}{5}$

7. $45\% = \frac{9}{20}$

8. $7\% = \frac{7}{100}$

9. $32.5\% = \frac{13}{40}$

10. $15\% = \frac{3}{20}$

11. $1\% = \frac{1}{100}$

12. $150\% = \frac{3}{2}$

13. $33\frac{1}{3}\% = \frac{1}{3}$

Write the fraction as a percent.

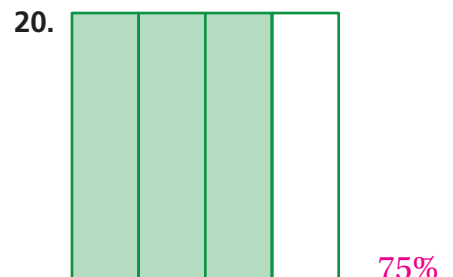
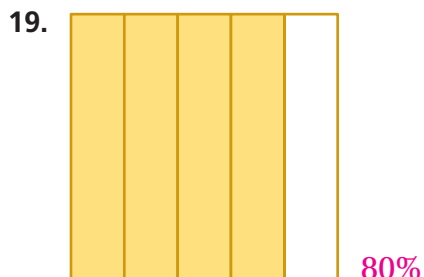
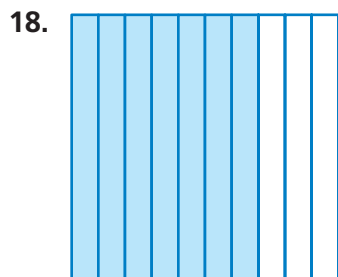
14. $\frac{3}{20} = 15\%$

15. $\frac{6}{5} = 120\%$

16. $\frac{5}{8} = 62.5\%$

17. $\frac{3}{5} = 60\%$

Write the fraction represented by the model as a percent.



21. **SURVEY** Eighteen out of twenty people in a survey said that vanilla ice cream is their favorite flavor of ice cream. What percent is this? 90%

22. **SPANISH LANGUAGE** Twelve of the 40 students in your class can speak Spanish. What percent is this? 30%