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LESSON 16 Percents

A **percent** names a number as part of 100.

$$75 \text{ of } 100 \text{ parts} = 75\% \qquad 3 \text{ of } 100 \text{ parts} = 3\%$$

A fraction, a decimal, and a percent can name the same number in different forms. The forms are **equivalent**.

$$\frac{3}{4} = \frac{75}{100} = 0.75 = 75\% \qquad \frac{3}{100} = 0.03 = 3\%$$

To change a percent to a decimal, move the decimal point two places to the left.

$$39\% = \frac{39}{100} = 0.39$$

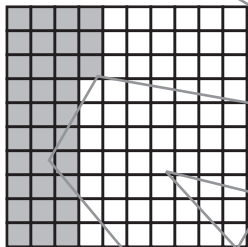
Read each problem. Circle the letter of the best answer.

- 1** Ray made 40% of his shots in a basketball game. What is 40% written as a fraction in lowest terms?

- A $\frac{1}{40}$ C $\frac{2}{5}$
 B $\frac{1}{4}$ D $\frac{3}{5}$

A percent can be written as a fraction with a denominator of 100. So $40\% = \frac{40}{100}$. Now simplify the fraction: $\frac{40}{100} = \frac{2}{5}$. The correct answer is C.

- 2** What percent of this grid is shaded?



- A 30%
 B 33%
 C 40%
 D 43%

- 3** A juice drink contains 24% real fruit juice. What is 24% written as a decimal?

- A 0.0024
 B 0.024
 C 0.24
 D 2.4

- 4** There are 20 students in Elton's class, and 14 of them went on the class camping trip. What percent of the students went camping?

- A 7%
 B 14%
 C 60%
 D 70%

Read each problem. Write your answers.

5 A telephone company gave 6% of its profits to environmental causes last year.

A Write 6% as a decimal.

Answer: _____

B Write 6% as a fraction in lowest terms.

Answer: _____

6 Kelsey flipped a coin 50 times, guessing the result before each flip.

A In her first 30 flips, Kelsey guessed correctly 15 times. What percent of her first 30 flips did she guess correctly?

Answer: _____

B In her last 20 flips, Kelsey guessed correctly 12 times. What percent of her last 20 flips did she guess correctly?

Answer: _____

C What percent of the 50 flips did Kelsey guess correctly? Explain how you found your answer.
