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LESSON 16  Equivalent Fractions

Equivalent fractions name the same number in different terms.

\[
\frac{1}{3} = \frac{2}{6}
\]

To change to higher terms, multiply top and bottom by the same number. To change to lower terms, divide.

\[
\frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6} \quad \frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}
\]

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

1. There are 10 books in Jo-Jo's favorite mystery series. Jo-Jo has read 8 of them. What fraction of the books in the series has he read?
   - A \( \frac{2}{3} \)
   - B \( \frac{3}{4} \)
   - C \( \frac{4}{5} \)
   - D \( \frac{5}{6} \)

Jo-Jo has read \( \frac{8}{10} \) of the books. Dividing the numerator and denominator by 2 reduces \( \frac{8}{10} \) to lowest terms: \( \frac{8 \div 2}{10 \div 2} = \frac{4}{5} \). The correct answer is C.

2. Look at this picture.

Which picture shows an equivalent fraction?
   - A \( \frac{2}{3} \)
   - B \( \frac{3}{4} \)
   - C \( \frac{5}{6} \)
   - D \( \frac{7}{8} \)

3. A group of 6 friends have 4 oranges to share equally. Which division expression tells the fraction of an orange each friend will get?
   - A \( 1 \div 2 \)
   - B \( 1 \div 3 \)
   - C \( 2 \div 3 \)
   - D \( 3 \div 4 \)

4. What fraction of this octagon is shaded?
   - A \( \frac{2}{3} \)
   - B \( \frac{3}{4} \)
   - C \( \frac{5}{6} \)
   - D \( \frac{7}{8} \)
Read each problem. Write your answers.

5 Look at this division expression.

\[ 2 \div 5 \]

A Write the expression as a fraction.

Answer: __________

B Write an equivalent fraction in higher terms.

Answer: __________

6 The map shows part of a subway train track. The letters show places where the train stops. The distances between stops are equal. The distance from stop A to stop K is 1 mile.

A Kelli rode from stop A to stop C. What fraction of a mile did she ride?

Answer: __________

B Simplify the fraction from part A to lowest terms.

Answer: __________

C Explain how you found your answer to part B.

___________________________________________________________________________________
___________________________________________________________________________________
___________________________________________________________________________________
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