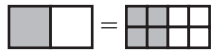


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A **fraction** can name a part of a whole or part of a set.

Equivalent fractions name the same number in different terms.



$$\frac{1}{2} = \frac{4}{8}$$

The fractions $\frac{1}{2}$ and $\frac{4}{8}$ are equivalent.

To find an equivalent fraction in **higher terms**, multiply the numerator and denominator by the same number.

$$\frac{1}{4} \times \frac{2}{2} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8}$$

To find an equivalent fraction in **lower terms**, divide the numerator and denominator by the same number.

$$\frac{6}{9} \div \frac{3}{3} = \frac{6 \div 3}{9 \div 3} = \frac{2}{3}$$

The **numerator** and **denominator** are the **terms** of the fraction.

$$\frac{3}{8} \leftarrow \begin{array}{l} \text{Numerator} \\ \text{Denominator} \end{array}$$

The numerator is the number of parts being talked about. The denominator is the number of parts in the whole or set.

When a fraction is in **lowest terms**, or simplest form, it cannot be made simpler.

$$\frac{5}{10} = \frac{1}{2}$$

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

- 1 Dennis grew $\frac{1}{3}$ foot. Which fraction is equivalent to $\frac{1}{3}$ in higher terms?

A $\frac{2}{3}$

B $\frac{3}{3}$

C $\frac{3}{12}$

D $\frac{4}{12}$

To find an equivalent fraction in higher terms, multiply: $\frac{1}{3} \times \frac{4}{4} = \frac{1 \times 4}{3 \times 4} = \frac{4}{12}$. One-third is equivalent to four-twelfths. The correct answer is D.

- 3 In a survey, $\frac{2}{5}$ of the people said they have traveled outside of the country. How can an equivalent fraction be found for $\frac{2}{5}$?

A Multiply 2 by 2 and 5 by 2.

B Multiply 2 by 2 and 5 by 5.

C Divide 2 by 5 and 5 by 2.

D Divide 2 by 2 and 5 by 5.

- 2 Which fraction is equivalent to $\frac{9}{12}$ in lowest terms?

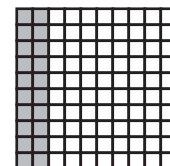
A $\frac{2}{3}$

B $\frac{3}{4}$

C $\frac{3}{6}$

D $\frac{4}{6}$

- 4 Which of these numbers does **not** name the shaded part of this figure?



A $\frac{1}{5}$

B $\frac{2}{10}$

C $\frac{3}{30}$

D $\frac{4}{20}$

Read each problem. Write your answers.

5 In a fish tank, $\frac{10}{15}$ of the fish are orange.

A What is an equivalent fraction to $\frac{10}{15}$ in lowest terms?

Answer: _____

B Explain how you know your answer is correct.

6 Yesterday, 6 of the 20 students in Ms. Healy's class took the bus to school.

A What fraction of the students, in lowest terms, took the bus to school yesterday?

Answer: _____

B What is an equivalent fraction in higher terms?

Answer: _____

C Explain how you know your answer to part B is correct.
