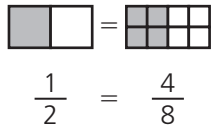


Contents

Lesson 1	Whole Numbers to Millions	4
Lesson 2	Place Value	6
Lesson 3	Comparing Whole Numbers	8
Lesson 4	Multiplying Three-Digit Numbers	10
Lesson 5	Dividing Three-Digit Numbers	12
Lesson 6	Rounding and Estimation	14
Lesson 7	Equivalent Fractions	16
Lesson 8	Comparing and Ordering Fractions	18
Lesson 9	Renaming Fractions	20
Lesson 10	Adding and Subtracting Fractions with Like Denominators	22
Lesson 11	Adding and Subtracting Fractions with Unlike Denominators	24
Lesson 12	Estimating with Fractions	26
Lesson 13	Decimals	28
Lesson 14	Comparing and Ordering Decimals	30
Lesson 15	Operations with Decimals	32
Lesson 16	Estimating with Decimals	34
Lesson 17	Percents	36
Lesson 18	Ratios	38
Lesson 19	Primes and Composites	40
Lesson 20	Multiples	42
Lesson 21	Factors	44
Lesson 22	Order of Operations	46
	How to Answer Constructed Response Questions	48

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

Equivalent fractions name the same number in different terms.



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.

$$\frac{3}{8} \leftarrow \text{Numerator}$$

$$\frac{3}{8} \leftarrow \text{Denominator}$$

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 $\frac{2}{3}$

C $\frac{3}{12}$

B $\frac{3}{3}$

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.

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

A $\frac{2}{3}$

C $\frac{3}{6}$

B $\frac{3}{4}$

D $\frac{4}{6}$

- 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 $\frac{2}{5}$?

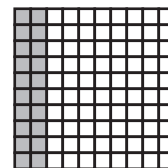
A Multiply 2 by 2 and 5 by 2.

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.

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



A $\frac{1}{5}$

C $\frac{3}{30}$

B $\frac{2}{10}$

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.
