What Are Fractions?

Name: _____ **Date:** _____

Quick Review

A **fraction** represents part of a whole or part of a set.

For example, **3/4** means three out of four equal parts.

- **Numerator (3):** The top number. It tells us how many parts are being considered.
- **Denominator (4):** The bottom number. It tells us how many equal parts make one whole.

Fractions can also describe groups of objects.

Example: If 2 out of 5 apples are red, the fraction that are red is **2/5**.

Fractions can be:

- **Less than 1:** 2/5
- **Equal to 1:** 4/4
- **Greater than 1:** 5/4

Part A — Multiple Choice

1. What does a fraction represent?

A. Only whole numbers
B. A part of a whole or set
C. Only numbers greater than one
D. The total number of objects

2. In the fraction 3/8, what is the numerator?

A. 3
B. 8
C. 11
D. 5

3. In the fraction 5/6, what does the denominator represent?

A. The number of selected parts
B. The number of shaded parts only
C. The number of equal parts in one whole
D. The number of complete objects

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4. Which fraction is greater than 1?

A. 2/5
B. 3/4
C. 4/4
D. 7/5

5. Which fraction is equal to one whole?

A. 3/5
B. 6/6
C. 2/3
D. 5/8

Part B — Numerators and Denominators

Complete the table.

Fraction	Numerator	Denominator
2/7	_____	_____
5/9	_____	_____
3/4	_____	_____
8/8	_____	_____
7/3	_____	_____

1. What does the numerator tell us?

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2. What does the denominator tell us?

Part C — Representing Fractions

Each square represents one equal part. ■ means shaded and □ means unshaded.

1. Write the fraction represented by each model.

a) ■ ■ □ □ Fraction: _____ b) ■ ■ ■ □ □ □ Fraction: _____

c) ■ ■ ■ ■ □ Fraction: _____ d) ■ ■ ■ ■ Fraction: _____

2. Shade the correct number of squares.

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a) Shade 2/5: □ □ □ □ □ b) Shade 3/4: □ □ □ □ c) Shade 1/6: □ □ □ □ □ □

3. Draw a rectangle divided into 8 equal parts. Shade 3 parts.

Fraction: _____

Drawing:

Part D — Fractions of a Set

1. A basket contains 8 apples. Three are green.

What fraction of the apples are green?

2. A class has 12 students. Four students wear glasses.

What fraction of the class wears glasses?

3. A box contains 10 pencils. Six are blue.

What fraction of the pencils are blue?

4. There are 7 flowers in a garden. Two are yellow.

What fraction of the flowers are NOT yellow?

Part E — Fractions on a Number Line

1. Complete the missing fractions on this number line. 0 —— 1/4 —— _____ —— 3/4 —— 1

2. Complete the missing fractions. 0 —— 1/3 —— _____ —— 1

3. Which fraction is halfway between 0 and 1?

4. Draw a number line from 0 to 1 and mark 1/4, 1/2, and 3/4.

Part F — Less Than, Equal To, or Greater Than One

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What Are Fractions?

Write **less than 1**, **equal to 1**, or **greater than 1**.

Fraction	Classification
2/3	_____
5/5	_____
7/4	_____
3/8	_____
9/9	_____
11/6	_____

1. How can you tell when a positive fraction is greater than 1?

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2. How can you tell when a positive fraction equals 1?

Part G — Real-Life Fractions

1. A pizza is divided into 8 equal slices. You eat 3 slices.

a) What fraction of the pizza did you eat? _____

b) What fraction remains? _____

2. A chocolate bar has 12 equal pieces. Sam eats 6 pieces.

What fraction of the bar does Sam eat?

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3. A water bottle is divided into 4 equal volume portions. It contains 3 portions of water.

What fraction of the bottle is filled?

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4. You have 5 identical chocolate bars, each divided into 4 equal pieces. You eat 6 pieces.

a) Write the amount eaten as a fraction of one bar. _____

b) Is this amount less than, equal to, or greater than one whole bar? _____

What Are Fractions? — Answer Key

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What Are Fractions?

Part A — Multiple Choice

1. B — A part of a whole or set
2. A — 3
3. C — The number of equal parts in one whole
4. D — 7/5
5. B — 6/6

Part B — Numerators and Denominators

Fraction	Numerator	Denominator
2/7	2	7
5/9	5	9
3/4	3	4
8/8	8	8
7/3	7	3

1. What does the numerator tell us?

The numerator tells us how many equal parts are being considered.

2. What does the denominator tell us?

The denominator tells us how many equal parts make one whole.

Part C — Representing Fractions

1. Write the fraction represented by each model.

a) ■ ■ □ □ → 2/4

b) ■ ■ ■ □ □ □ → 3/6

c) ■ ■ ■ ■ □ → 4/5

d) ■ ■ ■ ■ → 4/4 (one whole)

2. Shade the correct number of squares.

a) 2/5 → ■ ■ □ □ □

b) 3/4 → ■ ■ ■ □

c) 1/6 → ■ □ □ □ □ □

Any arrangement with the correct number of shaded squares is acceptable.

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3. Draw a rectangle divided into 8 equal parts. Shade 3 parts.

Example: 3 of 8 equal parts shaded = 3/8

Fraction: 3/8

Part D — Fractions of a Set

1. Three green apples out of eight — 3/8
2. Four students out of twelve — 4/12 (or 1/3)
3. Six blue pencils out of ten — 6/10 (or 3/5)
4. Five flowers are not yellow out of seven — 5/7

Part E — Fractions on a Number Line

1. Missing fraction: 2/4

2. Missing fraction: 2/3

0 — 1/3 — 2/3 — 1

3. Which fraction is halfway between 0 and 1?

1/2

4. Number line showing 1/4, 1/2, and 3/4.

Part F — Less Than, Equal To, or Greater Than One

Fraction	Classification
2/3	Less than 1
5/5	Equal to 1
7/4	Greater than 1
3/8	Less than 1
9/9	Equal to 1
11/6	Greater than 1

1. How can you tell when a positive fraction is greater than 1?

The numerator is greater than the denominator.

2. How can you tell when a positive fraction equals 1?

The numerator and denominator are equal.

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Part G — Real-Life Fractions

1. Pizza divided into 8 equal slices; 3 eaten

a) Fraction eaten: 3/8

b) Fraction remaining: 5/8

2. Chocolate bar with 12 pieces; 6 eaten

6/12 (or 1/2)

3. Water bottle with 3 of 4 equal portions filled

3/4

4. Five chocolate bars, each divided into 4 pieces; 6 pieces eaten

a) Fraction of one bar eaten: 6/4 (or 1½ bars)

b) Greater than one whole

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