

Grade 3 · Understanding Fractions · Test

Common Core 3.NF.A.1, 3.NF.A.2 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

This test checks understanding of unit fractions, numerators and denominators, and fractions on a number line. It has 10 questions worth 20 points in all. Work carefully, and write each fraction with the numerator on top.

Test information

- **Grade:** Grade 3
- **Chapter:** Understanding Fractions
- **Common Core:** 3.NF.A.1, 3.NF.A.2
- **Time:** 30 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 2 pts; Question 5: 2 pts; Question 6: 2 pts; Question 7: 2 pts; Question 8: 2 pts; Question 9: 2 pts; Question 10: 2 pts)

Question 1: Shaded parts (2 points)

The bar is cut into equal parts.

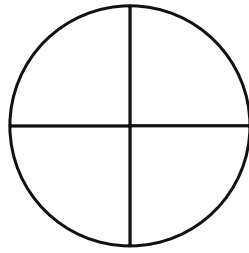


A bar cut into equal parts.

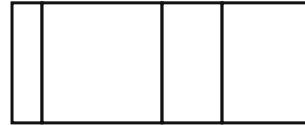
- Write the fraction of the bar that is shaded. (1 point)
- Write the fraction of the bar that is not shaded. (1 point)

Question 2: Equal parts (2 points)

Look at the two shapes.



Shape A



Shape B

Two shapes, each cut into 4 parts.

- Which shape is cut into fourths? (1 point)
- Explain why the other shape is not cut into fourths. (1 point)

Question 3: Numerator and denominator (2 points)

Look at the fraction $\frac{5}{8}$.

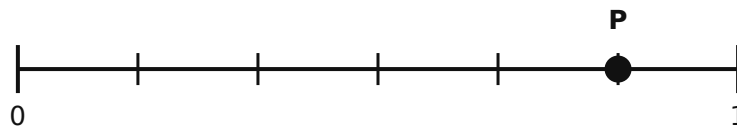
- What does the numerator tell? (1 point)
- What does the denominator tell? (1 point)

Question 4: Unit fractions (2 points)

- A whole is cut into 3 equal parts. Write the unit fraction that names one part. (1 point)
- The fraction $\frac{7}{8}$ is made of how many parts of size $\frac{1}{8}$? (1 point)

Question 5: Point on a number line (2 points)

The number line from 0 to 1 is cut into equal parts.

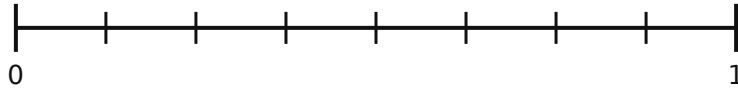


Point P on a number line.

- Write the fraction that names point P. (1 point)
- Write the fraction that names the length of each part. (1 point)

Question 6: Plot two fractions (2 points)

Plot and label point M at $\frac{3}{8}$ and point N at $\frac{7}{8}$ on the number line.



A number line from 0 to 1 cut into 8 equal parts.

Question 7: Shade the rectangle (2 points)

The rectangle is cut into equal parts.



A rectangle cut into equal parts.

- Shade $\frac{5}{8}$ of the rectangle. (1 point)
- Write the fraction of the rectangle that is not shaded. (1 point)

Question 8: Pie slices (2 points)

A pie is cut into 8 equal slices. Aisha eats 3 slices. Diego eats 2 slices.

- What fraction of the pie do Aisha and Diego eat together? (1 point)
- What fraction of the pie is left? (1 point)

Question 9: Walking the trail (2 points)

A trail is 1 mile long. Markers cut the trail into 4 equal parts. Jamal walks from the start to the third marker.

- What fraction of a mile does Jamal walk? (1 point)
- How many more parts of size $\frac{1}{4}$ mile are left to reach the end of the trail? (1 point)

Question 10: Ethan's claim (2 points)

Ethan says, "The fraction $\frac{3}{4}$ means 3 parts, and each part has size $\frac{1}{3}$."

- Is Ethan correct? (1 point)
- Write a correct sentence that tells what $\frac{3}{4}$ means. (1 point)