

Grade 3 · Understanding Fractions · Test Answer Key

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

This answer key shows the full solution and the scoring for each question of the Grade 3 fractions test. The total is 20 points. Use the scoring notes to give partial credit when a student shows part of the work.

Grade 3 Common Core: 3.NF.A.1 · 3.NF.A.2

Question 1: Shaded parts (2 points)

- a. The bar has 6 equal parts and 5 are shaded: $\frac{5}{6}$.
- b. $6 - 5 = 1$ part is not shaded: $\frac{1}{6}$.

Scoring: 1 point for each correct fraction. Reversing the numerator and denominator earns no point.

Question 2: Equal parts (2 points)

- a. **Shape A** is cut into fourths.
- b. Shape B has 4 parts, but the parts are not all the same size. **Fourths must be equal parts.**

Scoring: 1 point for Shape A. 1 point for explaining that the parts of Shape B are not equal.

Question 3: Numerator and denominator (2 points)

- a. The numerator, 5, tells that **5 parts are counted**.
- b. The denominator, 8, tells that **the whole is cut into 8 equal parts**.

Scoring: 1 point for each correct meaning. Saying only "top number" or "bottom number" earns no point.

Question 4: Unit fractions (2 points)

- a. $\frac{1}{3}$
- b. The numerator is 7, so **7** parts.

Scoring: 1 point for each correct answer.

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

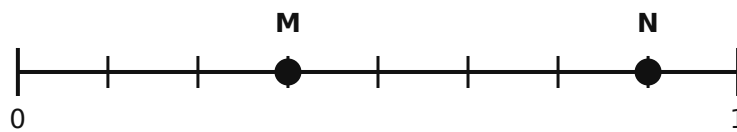
The space from 0 to 1 has 6 equal parts.

- a. P is 5 parts from 0: $\frac{5}{6}$.
- b. Each part is $\frac{1}{6}$.

Scoring: 1 point for each correct fraction.

Question 6: Plot two fractions (2 points)

Each part is $\frac{1}{8}$. M is 3 steps from 0 and N is 7 steps from 0.



M is 3 steps and N is 7 steps from 0.

Scoring: 1 point for each correctly placed and labeled point.

Question 7: Shade the rectangle (2 points)

The rectangle has 8 equal parts.

- a. Shade any 5 of the 8 parts (see the figure).
- b. $8-5=3$ parts are not shaded: $\frac{3}{8}$.



Five of the eight equal parts are shaded.

Scoring: 1 point for shading exactly 5 of the 8 parts. 1 point for the fraction not shaded.

Question 8: Pie slices (2 points)

- a. $3+2=5$ slices are eaten: $\frac{5}{8}$.
- b. $8-5=3$ slices are left: $\frac{3}{8}$.

Scoring: 1 point for each correct fraction.

Question 9: Walking the trail (2 points)

Each part of the trail is $\frac{1}{4}$ mile.

- a. Jamal walks 3 parts: $\frac{3}{4}$ **mile**.
- b. $4-3=1$ part is left: **1 part**.

Scoring: 1 point for each correct answer.

Question 10: Ethan's claim (2 points)

- a. **No**. The denominator is 4, so each part is not one third.
- b. $\frac{3}{4}$ **means 3 parts, and each part has size $\frac{1}{4}$.**

Scoring: 1 point for saying he is not correct. 1 point for a sentence that names 3 parts of size $\frac{1}{4}$.

Total
20 points