

Grade 3 · Equivalent and Comparing Fractions · Test Answer Key

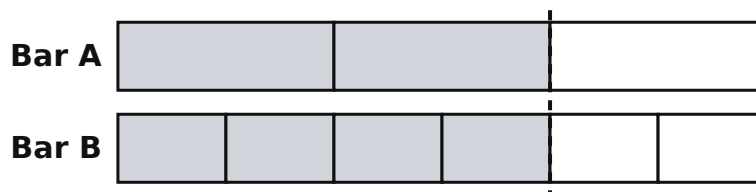
Common Core 3.NF.A.3 · mathovore.fr

This answer key shows the full solution and the scoring for each question of the Grade 3 equivalent 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.3

Question 1: Equal bars (2 points)

- a. Bar A: $\frac{2}{3}$. Bar B: $\frac{4}{6}$.
b. $\frac{2}{3} = \frac{4}{6}$, because the shaded parts have the same length.



The two shaded parts line up exactly.

Scoring: 1 point for both fractions correct. 1 point for a correct equation with the equals sign.

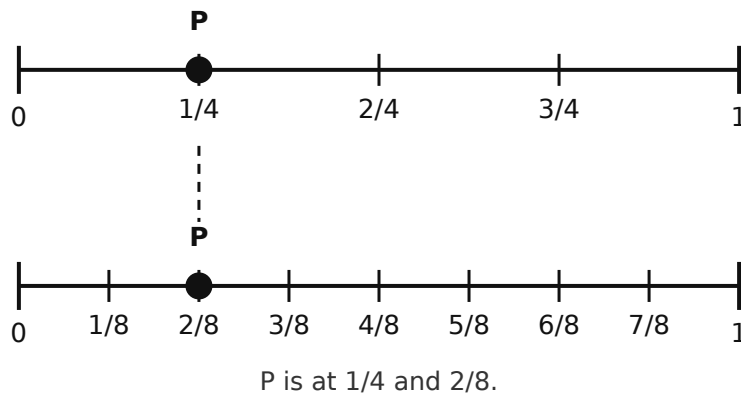
Question 2: Missing numbers (2 points)

- a. $\frac{1}{2} = \frac{4}{8}$, so the missing number is **4**.
b. $\frac{2}{3} = \frac{4}{6}$, so the missing number is **6**.

Scoring: 1 point for each correct number.

Question 3: Same point (2 points)

- a. P is 1 part from 0 on the line cut into 4 parts: $\frac{1}{4}$.
b. On the bottom line P is 2 parts from 0 out of 8: $\frac{2}{8}$.



Scoring: 1 point for each correct fraction.

Question 4: Whole numbers (2 points)

- $\frac{5}{1}$
- 1**, because all 8 of 8 equal parts make one whole.

Scoring: 1 point for each correct answer.

Question 5: Equal to 1 or 2 (2 points)

- A fraction equals 1 when the numerator and denominator are equal: $\frac{4}{4}$ **and** $\frac{8}{8}$. (The fraction $\frac{4}{2}$ equals 2.)
- Two wholes are 2 groups of 4 fourths, which is 8 fourths: $2 = \frac{8}{4}$.

Scoring: 1 point for circling exactly the two correct fractions. 1 point for the correct fraction.

Question 6: Same denominator (2 points)

- $\frac{3}{5} < \frac{5}{10}$
- $\frac{7}{8} > \frac{4}{8}$

The denominators match, so the fraction with the larger numerator is greater.

Scoring: 1 point for each correct comparison symbol.

Question 7: Same numerator (2 points)

- $\frac{2}{6} < \frac{2}{3}$
- Both fractions count 2 parts, but the parts of the $\frac{2}{3}$ bar are bigger. **Thirds are bigger than sixths.**

Scoring: 1 point for the correct symbol. 1 point for explaining that the parts, or the shaded length, are bigger in the thirds bar.

Question 8: Order three fractions (2 points)

$$\frac{3}{8} < \frac{3}{6} < \frac{3}{4}$$

All three fractions count 3 parts. The larger the denominator, the smaller each part, so eighths are smallest and fourths are biggest.

Scoring: 1 point for the correct order. 1 point for an explanation about the sizes of the parts.

Question 9: Sandwich share (2 points)

- a. $\frac{3}{4} = \frac{6}{8}$
b. **Neither.** They eat the same amount.

Scoring: 1 point for the equation. 1 point for saying they eat the same amount.

Question 10: Different pizzas (2 points)

- a. **No.** Jamal ate more pizza.
b. The pizzas are different sizes, so the wholes are different. Half of a large pizza is more than half of a small pizza.

Scoring: 1 point for answering no. 1 point for explaining that the wholes are different sizes.

Total
20 points