

Grade 3 · Understanding Fractions · Worksheet Answer Key

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

This answer key gives a full worked solution for every problem on the Grade 3 fractions worksheet. Check the number of equal parts first, then the number of parts counted, and compare each step with your own work.

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

Problem 1: Unit fraction of a pie

The circle has 6 equal parts, so the denominator is 6. One part is shaded, so the numerator is 1.

The unit fraction is $\frac{1}{6}$.

Problem 2: Equal parts or not

The bar has 4 parts, but the parts are not the same size. Fourths must be equal.

No, it does not show fourths.



Fourths: 4 parts that are all the same size.

Problem 3: Name the shaded fraction

The bar has 8 equal parts, so the denominator is 8. Five parts are shaded, so the numerator is 5.

The shaded part is $\frac{5}{8}$.

Problem 4: Shade a fraction

The denominator 3 means the bar has 3 equal parts. The numerator 2 means shade 2 of them.

Shade any 2 of the 3 parts.



Two of the three equal parts are shaded: $\frac{2}{3}$.

Problem 5: Fractions in words

- a. **three-fourths**
- b. **five-sixths**
- c. Seven-eighths is 7 parts out of 8: $\frac{7}{8}$.

Problem 6: Numerator and denominator

- a. The top number is **5**.
- b. The bottom number is **8**.
- c. The whole is cut into **8 equal parts**.

Problem 7: Counting unit fractions

- a. The numerator is 3, so **3** parts.
- b. The numerator is 5, so **5** parts.
- c. Each copy is one eighth: $\frac{1}{8}$.

Problem 8: Fraction of a circle

The circle has 6 equal parts and 4 are shaded.

The shaded part is $\frac{4}{6}$.

Problem 9: Fraction of a rectangle

There are 4 columns and 2 rows, so $4 \times 2 = 8$ equal squares. Three squares are shaded.

The shaded part is $\frac{3}{8}$.

Problem 10: The part not shaded

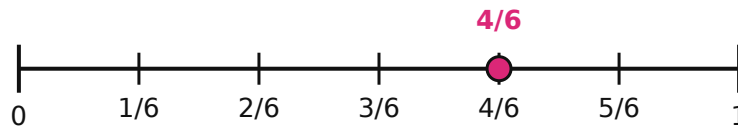
The bar has 8 equal parts. Three are shaded, so $8 - 3 = 5$ are not shaded.

The part not shaded is $\frac{5}{8}$.

Problem 11: Name the point

The distance from 0 to 1 is cut into 6 equal parts, so each step is $\frac{1}{6}$. Point P is 4 steps from 0.

Point P is $\frac{4}{6}$.



Four steps of size $\frac{1}{6}$ from 0.

Problem 12: Length of each part

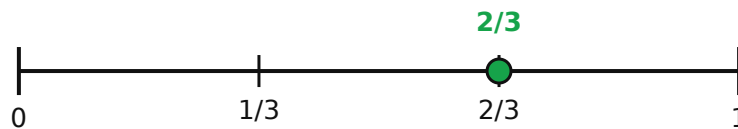
When the space from 0 to 1 is cut into b equal parts, each part has length $\frac{1}{b}$.

- a. $\frac{1}{b}$
- b. $\frac{1}{b}$
- c. $\frac{1}{b}$

Problem 13: Plot a fraction

There are 3 equal parts, so each step is $\frac{1}{3}$. Start at 0 and take 2 steps.

Draw the point at the second mark after 0.



The point at $\frac{2}{3}$ is two steps from 0.

Problem 14: Two points

Each part is $\frac{1}{8}$. Point A is 3 steps from 0. Point B is 7 steps from 0.

A is $\frac{3}{8}$ and B is $\frac{7}{8}$.

Problem 15: Hops on a number line

- a. 5 hops of $\frac{1}{6}$ land at $\frac{5}{6}$.
- b. 3 hops of $\frac{1}{4}$ land at $\frac{3}{4}$.

Problem 16: Build the fraction

- a. $\frac{3}{5}$
- b. A unit fraction has numerator 1: $\frac{1}{5}$.

c. $\frac{2}{7}$

Problem 17: Find the mistake

The denominator counts *all* the equal parts in the whole, not only the unshaded ones. The circle has $1 + 3 = 4$ equal parts.

The correct fraction is $\frac{1}{4}$.

Problem 18: Sofia's sandwich

The sandwich has 4 equal pieces.

- a. She eats 3 of 4 pieces: $\frac{3}{4}$.
- b. $4 - 3 = 1$ piece is left: $\frac{1}{4}$.

Problem 19: Hiking trail

Each part of the trail is $\frac{1}{8}$ mile. The picnic table is 5 parts from the start.

Mei walks $\frac{5}{8}$ mile.

Problem 20: Jamal's garden

The garden has 8 equal sections.

- a. $\frac{5}{8}$
- b. $8 - 5 = 3$ sections have peppers: $\frac{3}{8}$.

Problem 21: Bake sale brownies

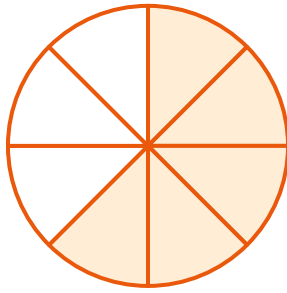
The pan has 6 equal pieces.

- a. $\frac{5}{6}$
- b. $6 - 5 = 1$ piece is left, so the unit fraction is $\frac{1}{6}$.

Problem 22: Pizza night

The pizza has 8 equal slices.

- a. Aisha eats 3 slices: $\frac{3}{8}$.
- b. Together they eat $2 + 3 = 5$ slices: $\frac{5}{8}$.
- c. $8 - 5 = 3$ slices are left: $\frac{3}{8}$.



The 5 shaded slices are $\frac{5}{8}$ of the pizza; 3 slices are left.

Problem 23: Ethan's paper strip

- a. The strip has 3 equal parts: $\frac{1}{3}$.
- b. Two of the 3 parts are red: $\frac{2}{3}$.
- c. **2** parts, because the numerator is 2.