

Grade 3 - Understanding Fractions - Test

Common Core 3.NF.A.1, 3.NF.A.2 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This **fractions test** for 3rd Grade covers understanding fractions (Common Core 3.NF.A.1, 3.NF.A.2), with a free PDF to print.

This test has 9 questions worth 20 points in all. It covers unit fractions, fractions of a whole, and fractions on a number line (3.NF.A.1, 3.NF.A.2). Work in pencil, show your marks on the models, and plan about 45 minutes.

Time and points

About this test

- Grade: Grade 3
- Chapter: Understanding Fractions
- Standards: 3.NF.A.1, 3.NF.A.2
- Time: 45 minutes
- Total: 20 points

Fractions test: questions

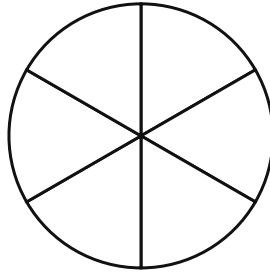
Question 1 - Read the model [3 pts]



A bar cut into 8 equal parts.

- What fraction of the bar is shaded? (1 point)
- What fraction of the bar is not shaded? (1 point)
- Write the unit fraction that names one part. (1 point)

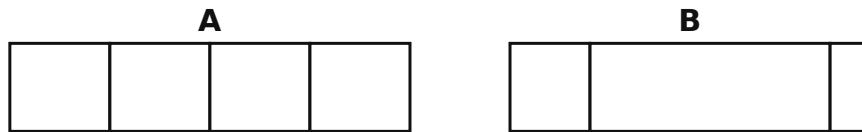
Question 2 - Shade the circle [2 pts]



A circle cut into 6 equal parts.

- a. Shade $\frac{4}{6}$ of the circle. (1 point)
- b. How many copies of $\frac{1}{6}$ did you shade? (1 point)

Question 3 - Equal parts [2 pts]



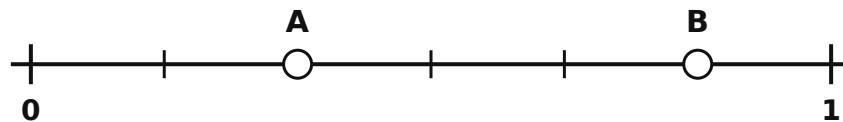
Two rectangles, A and B.

- a. Which rectangle is cut into fourths? (1 point)
- b. Explain why the other rectangle does not show fourths. (1 point)

Question 4 - Copies of a unit fraction [2 pts]

- a. The fraction $\frac{7}{8}$ is 7 copies of which unit fraction? (1 point)
- b. Write the fraction for 3 copies of $\frac{1}{4}$. (1 point)

Question 5 - Points on a number line [3 pts]



Points A and B on a number line from 0 to 1.

- a. What fraction does point A show? (1 point)
- b. What fraction does point B show? (1 point)
- c. Mark and label point C at $\frac{1}{6}$. (1 point)

Question 6 - Garden sections [2 pts]

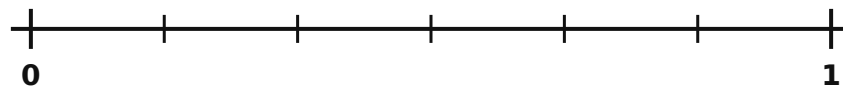
Aisha's flower bed is split into 8 equal sections. She plants roses in 3 sections and daisies in 4 sections. One section stays empty.

- What fraction of the bed has roses? (1 point)
- What fraction of the bed has flowers? (1 point)

Question 7 - Find the mistake [2 pts]

Jamal shades 3 of 4 equal parts of a bar and writes $\frac{4}{3}$. Explain his mistake and write the correct fraction.

Question 8 - Steps on a number line [2 pts]



A number line from 0 to 1 cut into sixths.

Mei starts at 0 and takes 3 steps. Each step is $\frac{1}{6}$ long.

- Mark where she lands. (1 point)
- Write the fraction for that point. (1 point)

Question 9 - Rope pieces [2 pts]

A rope is cut into 6 equal pieces. Mei uses 1 piece, Priya uses 2 pieces, and Noah uses 2 pieces.

- What fraction of the rope do they use in all? (1 point)
- What fraction of the rope is left? (1 point)

Key facts behind this fractions test

Key facts

- A fraction describes equal parts of one whole.

- The denominator (bottom) counts the equal parts in the whole; the numerator (top) counts the parts named.
- A unit fraction has numerator 1 and shows one equal part, such as $\frac{1}{8}$.
- The fraction $\frac{a}{b}$ is a copies of the unit fraction $\frac{1}{b}$.
- On a number line from 0 to 1, $\frac{a}{b}$ is the point reached after a hops of length $\frac{1}{b}$.

How to use this fractions test

Time yourself: the test is designed for an average student in 45 minutes. Answer the questions you are sure of first, then come back to the longer ones and check your units.