

Grade 3 - Equivalent and Comparing Fractions - Test

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

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

This **grade 3 equivalent fractions test** for 3rd Grade covers equivalent and comparing fractions (Common Core 3.NF.A.3), with a free PDF to print.

This test has 9 questions worth 20 points in all. It covers equivalent fractions, whole numbers written as fractions, and comparing fractions with the same numerator or denominator (3.NF.A.3). Plan about 45 minutes and use the models.

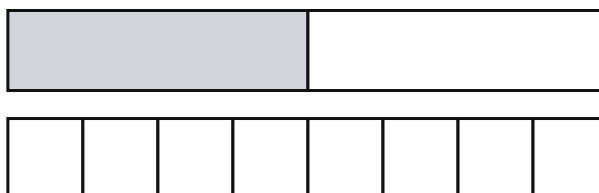
Time and points

About this test

- Grade: Grade 3
- Chapter: Equivalent and Comparing Fractions
- Standards: 3.NF.A.3
- Time: 45 minutes
- Total: 20 points

Grade 3 equivalent fractions test: questions

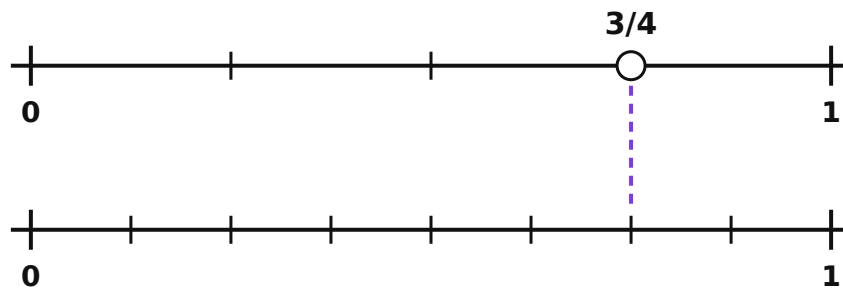
Question 1 - Equal amounts on bars [2 pts]



Two bars of the same length.

- Shade the bottom bar so it shows the same amount as the top bar. (1 point)
- Complete: $\frac{1}{2} = \frac{?}{8}$ (1 point)

Question 2 - Same point on number lines [3 pts]



Fourths on top and eighths on the bottom.

- Mark the same point as $\frac{3}{4}$ on the bottom line. (1 point)
- Write the eighths fraction for that point. (1 point)
- Write $\frac{1}{2}$ as a fraction with denominator 8. (1 point)

Question 3 - Whole numbers as fractions [3 pts]

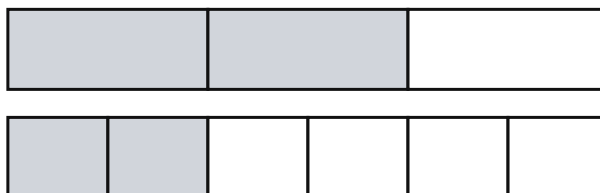
- $\frac{7}{1}$ equals what whole number? (1 point)
- Write 2 as a fraction with denominator 3. (1 point)
- $\frac{8}{8}$ equals what whole number? (1 point)

Question 4 - Same denominator [2 pts]

Write $<$, $>$, or $=$ in each blank.

- $\frac{5}{8}$ $\underline{\hspace{1cm}}$ $\frac{7}{8}$ (1 point)
- $\frac{4}{6}$ $\underline{\hspace{1cm}}$ $\frac{5}{6}$ (1 point)

Question 5 - Same numerator [3 pts]



Two bars of the same length.

- Which bar has more shaded? Write the fraction for each bar. (1 point)
- Write a comparison using $<$, $>$, or $=$. (1 point)
- Explain why the bar with more shading has bigger parts. (1 point)

Question 6 - Circle the equal fraction [1 pt]

Circle the fraction that equals $\frac{3}{4}$: $\frac{3}{8}$, $\frac{6}{8}$, $\frac{4}{6}$, $\frac{3}{6}$.

Question 7 - Bike rides [2 pts]

Priya rides her bike $\frac{5}{6}$ mile and Diego rides $\frac{5}{8}$ mile.

- Who rides farther? (1 point)
- Write a comparison with $<$, $>$, or $=$. (1 point)

Question 8 - Find the mistake [2 pts]

Liam writes $\frac{2}{6} > \frac{2}{3}$ because 6 is greater than 3. Explain his mistake and write the correct comparison.

Question 9 - Ribbon lengths [2 pts]

For a craft project, Noah lays ten strips of ribbon end to end. Each strip is $\frac{1}{2}$ foot long. Mei lays six strips end to end, and each of hers is $\frac{1}{3}$ foot long.

- Write the length of Noah's row as a whole number of feet. (1 point)
- Write the length of Mei's row as a whole number of feet. (1 point)

Key facts behind this grade 3 equivalent fractions test

Key facts

- Equivalent fractions name the same amount and sit at the same point on a number line.
- Examples with denominators 2, 3, 4, 6, and 8: $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$ and $\frac{2}{3} = \frac{4}{6}$.
- A fraction with the same top and bottom number equals 1, and $\frac{n}{1}$ equals n .
- Same denominator: the greater numerator makes the greater fraction.
- Same numerator: the smaller denominator makes the greater fraction.

How to use this grade 3 equivalent 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.