

Grade 4 - Equivalent Fractions - Test

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

This test checks equivalent fractions with strips, number lines, missing numbers and word problems. It has 9 questions worth 20 points. Allow 45 minutes and no calculator.

About this test

- Grade: Grade 4
- Chapter: Equivalent Fractions
- Standards: 4.NF.A.1
- Time: 45 minutes
- Total: 20 points

Question 1 - Strips [2 pts]

Write the fraction shaded in each strip. Then explain whether they are equal.



Strip A and strip B.

Question 2 - Missing numerators [2 pts]

Find each missing number.

- a. $\frac{3}{10} = \frac{?}{10}$ (1 point)
- b. $\frac{5}{10} = \frac{?}{12}$ (1 point)

Question 3 - Hundredths [2 pts]

Find each missing number.

- a. $\frac{7}{10} = \frac{?}{100}$ (1 point)

b. $\frac{4}{5} = \frac{?}{100}$ (1 point)

Question 4 - Which are equal? [2 pts]

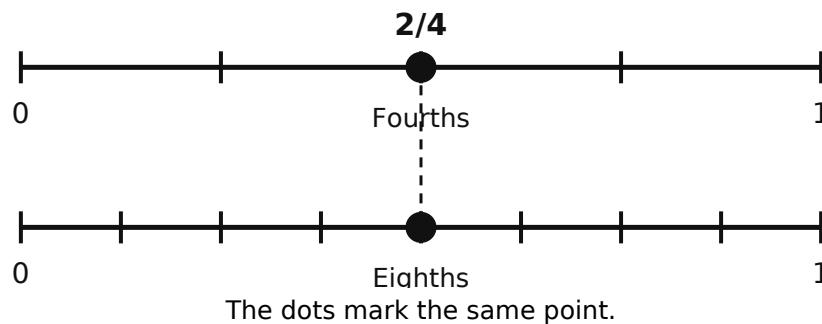
Which of these fractions are equivalent to $\frac{3}{4}$? $\frac{6}{8}$, $\frac{9}{12}$, $\frac{8}{12}$, $\frac{5}{6}$.

Question 5 - Ethan's error [2 pts]

Ethan says $\frac{2}{3} = \frac{3}{4}$ because he added 1 to the numerator and 1 to the denominator. Explain his mistake. Then write $\frac{2}{3}$ with denominator 12.

Question 6 - Number lines [3 pts]

The dot on the top number line is at $\frac{2}{4}$.



- Write the fraction at the dot on the bottom number line. (1 point)
- Write an equation using the two fractions. (1 point)
- Write the same amount as a fraction with denominator 10. (1 point)

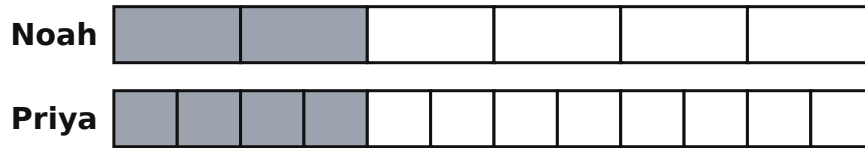
Question 7 - Store fractions [3 pts]

The school store sold $\frac{3}{10}$ of its pencils on Monday.

- Write $\frac{3}{10}$ as hundredths. (1 point)
- Write $\frac{25}{100}$ as an equivalent fraction with denominator 4. (1 point)
- Write $\frac{6}{8}$ as an equivalent fraction with denominator 4. (1 point)

Question 8 - Pizza comparison [3 pts]

Noah ate $\frac{2}{6}$ of a pizza. Priya ate $\frac{4}{12}$ of an identical pizza.



Two identical pizzas shown as strips.

- Did Noah and Priya eat the same amount? Explain. (2 points)
- Mei ate $\frac{1}{3}$ of an identical pizza. Did she eat the same amount as Noah? (1 point)

Question 9 - Write one [1 pt]

Write one fraction that is equivalent to $\frac{7}{10}$.