

Equivalent Fractions and Comparing: math test, Grade 4 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Name and simplify

/ 3 pts

The bar is cut into equal parts.



- What unit fraction names one part?
- What fraction of the bar is shaded?
- Write that fraction in simplest form.

2 Equivalent fractions

/ 4 pts

Find the missing number.

a. $\frac{3}{5} = \frac{?}{10}$

b. $\frac{5}{6} = \frac{?}{12}$

c. $\frac{8}{12} = \frac{2}{?}$

d. $\frac{30}{100} = \frac{3}{?}$

3 Simplest form

/ 3 pts

Write each fraction in simplest form.

a. $\frac{6}{10}$

b. $\frac{9}{12}$

c. $\frac{40}{100}$

4 Compare

/ 4 pts

Write $<$, $>$ or $=$. Show your work.

a. $\frac{5}{6} \text{ --- } \frac{2}{3}$

b. $\frac{3}{8} \text{ --- } \frac{1}{2}$

c. $\frac{7}{12} \text{ --- } \frac{3}{4}$

d. $\frac{4}{10} \text{ --- } \frac{2}{5}$

5 Number line

/ 3 pts

Points P, Q and R are on a number line from 0 to 1.



a. Write a fraction for each point.

b. Write the fraction for Q in simplest form.

c. Is R greater than or less than $\frac{3}{4}$? Justify.

6

Word problem: bookmarks

/ 3 pts

Hana cuts bookmarks from paper strips. Her blue strip is $\frac{3}{4}$ foot long, her red strip is $\frac{2}{3}$ foot long and her green strip is $\frac{5}{6}$ foot long. (One foot is about 30 centimeters.)

- Rewrite the three lengths with a common denominator.
- Order the strips from shortest to longest.
- Write a sentence to say which strip is the longest.

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