

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

22 problems graded by difficulty (★ easy, ★★ medium, ★★★ hard). Try first, without looking at the solutions!

1 Name the fraction



The bar below is cut into equal parts.



- Into how many equal parts is the bar cut? What is the unit fraction for one part?
- What fraction of the bar is shaded?
- What fraction of the bar is not shaded?

2 Pizza slices



A pizza is cut into 6 equal slices. Maya eats 1 slice at lunch and 2 more slices at dinner.

- What unit fraction names one slice?
- What fraction of the pizza did Maya eat in all?
- What fraction is left? Write it in two ways.

3 Fill in the missing number



Find the missing number to make the fractions equivalent.

a. $\frac{1}{2} = \frac{?}{6}$

b. $\frac{2}{3} = \frac{?}{12}$

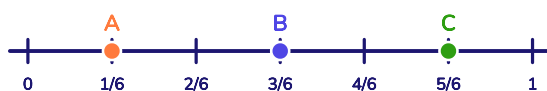
c. $\frac{3}{5} = \frac{?}{10}$

d. $\frac{3}{4} = \frac{?}{100}$

4 Name the points



Points A, B and C are marked on a number line from 0 to 1.



a. Write a fraction for each of the points A, B and C.

b. Point B has a simpler name. What is it?

5 True or false?



Say whether each statement is true or false and explain why.

a. $\frac{2}{4} = \frac{1}{2}$

b. $\frac{3}{6} = \frac{1}{3}$

c. $\frac{4}{10} = \frac{2}{5}$

d. $\frac{2}{3} = \frac{3}{4}$

6**Same denominator or same numerator**

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

a. $\frac{2}{5} \text{ — } \frac{4}{5}$

b. $\frac{6}{6} \text{ — } 1$

c. $\frac{1}{3} \text{ — } \frac{1}{8}$

d. $\frac{5}{8} \text{ — } \frac{3}{8}$

7**Above or below one half**

Sort these fractions into three groups: less than $\frac{1}{2}$, equal to $\frac{1}{2}$, greater than $\frac{1}{2}$.

$\frac{3}{8}, \frac{5}{6}, \frac{4}{8}, \frac{2}{5}, \frac{7}{12}, \frac{1}{10}$

8**Two equivalent fractions**

Write two fractions equivalent to each fraction.

a. $\frac{3}{4}$ (use denominators 8 and 12)

b. $\frac{2}{5}$ (use denominators 10 and 100)

9

Simplify

Write each fraction in simplest form.

a. $\frac{6}{8}$

b. $\frac{10}{12}$

c. $\frac{8}{12}$

d. $\frac{25}{100}$

10

Oatmeal scoops

A recipe for oatmeal cookies needs $\frac{2}{3}$ cup of oats. Lena only has a small scoop that holds $\frac{1}{6}$ cup. How many level scoops of oats does she need? How many scoops would she need for $\frac{1}{3}$ cup?

11

Fractions with unlike denominators

Compare with $<$, $>$ or $=$. Show your common denominator.

a. $\frac{2}{3} \text{ — } \frac{3}{4}$

b. $\frac{3}{5} \text{ — } \frac{7}{10}$

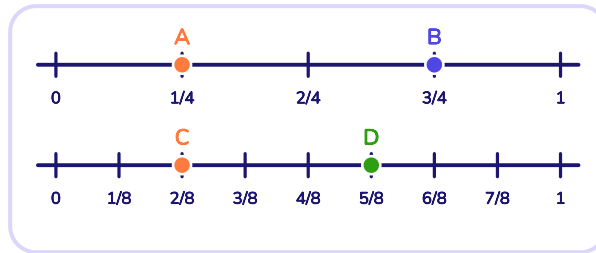
c. $\frac{5}{6} \text{ — } \frac{3}{4}$

d. $\frac{3}{8} \text{ — } \frac{1}{4}$

12 Two number lines



The number lines show points A, B, C and D.



- Write a fraction for each of A, B, C and D.
- Which two points sit at the same place? Write the equivalent fractions.
- Is D to the left or the right of B? Complete: $\frac{5}{8} \text{ — } \frac{3}{4}$.

13 Who ran farther?



During gym class Leo ran $\frac{3}{4}$ of a mile and Sara ran $\frac{5}{8}$ of a mile. Who ran farther, and by how much?

14 Least to greatest



Order these fractions from least to greatest: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{6}$, $\frac{5}{6}$.

15 Find the unknown number



Find the missing number.

- $\frac{4}{5} = \frac{?}{100}$
- $\frac{9}{12} = \frac{?}{4}$
- $\frac{3}{8} = \frac{9}{?}$
- $\frac{21}{?} = \frac{7}{10}$

16 Find the mistake

Ben says: " $\frac{2}{3} = \frac{4}{5}$ because I added 2 to the top and 2 to the bottom." Is Ben right? Explain. Then write a correct fraction equivalent to $\frac{2}{3}$ with a denominator of 6, and say which of $\frac{2}{3}$ and $\frac{4}{5}$ is greater.

17 Which equal one half?

Circle every fraction equal to $\frac{1}{2}$ and explain how you know: $\frac{5}{10}$, $\frac{6}{12}$, $\frac{4}{9}$, $\frac{50}{100}$, $\frac{3}{5}$. For each other fraction, say if it is less than or greater than $\frac{1}{2}$.

18 Ribbons for a craft

Ivy has three ribbons: a red one of $\frac{5}{6}$ yard, a blue one of $\frac{3}{4}$ yard and a green one of $\frac{7}{12}$ yard. (One yard is 3 feet, or about 0.91 meter.)

a. Order the ribbons from shortest to longest.

b. Which ribbons are longer than $\frac{2}{3}$ yard?

19 Same numerator

Explain why $\frac{3}{5} > \frac{3}{8}$ even though 8 is greater than 5. Then order $\frac{7}{10}$, $\frac{7}{8}$ and $\frac{7}{12}$ from least to greatest.

20 Phone batteries

Phone A is $\frac{4}{10}$ charged, phone B is $\frac{3}{5}$ charged and phone C is $\frac{1}{2}$ charged. Which phone has the most charge? Order the phones from least to most charge.

21 Vegetable garden



In Omar's garden, $\frac{4}{10}$ of the space grows tomatoes, $\frac{1}{2}$ grows peppers and $\frac{1}{10}$ grows beans.

- Which crop covers the most space?
- Compare tomatoes and peppers with a symbol.
- What fraction of the garden is *not* peppers? Simplify it.
- Check that the three crops fill the whole garden.

22 Fractions in between



- List every fraction with denominator 8 that is greater than $\frac{1}{2}$ and less than 1.
- List every fraction with denominator 12 that is greater than $\frac{1}{3}$ and less than $\frac{2}{3}$.



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