

Introduction to Fractions: math practice, Grade 3 – download the PDF

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

1 Name the shaded fraction

★ ★ ★

A chocolate bar is cut into equal pieces. Some pieces are colored.



Write the fraction of the bar that is colored. Then name its numerator and its denominator.

2 Unit fractions in words

★ ★ ★

Write each amount as a fraction.

- One piece of a sandwich that is cut into 2 equal pieces.
- One part when a ribbon is cut into 6 equal parts.
- Three pieces, each of size $\frac{1}{4}$.

3 Shade the fractions



A strip is cut into 8 equal parts. You color $\frac{3}{8}$ of it.

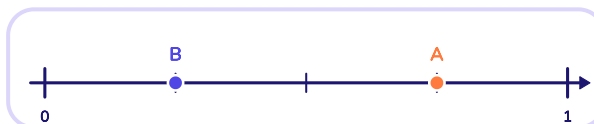


- How many parts do you color?
- How many parts stay white? What fraction of the strip is white?

4 Read a number line



The number line from 0 to 1 is cut into 4 equal lengths.



Write the fraction for point A and the fraction for point B.

5 Which piece is bigger?



Two friends cut sheets of paper of the same size. Ines cuts hers into 3 equal parts and Theo cuts his into 6 equal parts. Each keeps one part.

- Who has the bigger piece?
- Compare $\frac{1}{2}$ and $\frac{1}{8}$ with $>$ or $<$.

6 Whole numbers as fractions



Write the number 1 as a fraction with denominator 4, then with denominator 8, then with denominator 6. Then write $\frac{5}{1}$ as a whole number.

7 True or false?



Say whether each sentence is true or false, and explain.

a. $\frac{3}{3}$ is equal to one whole.

b. A square is cut into 4 pieces of different sizes. Each piece is $\frac{1}{4}$ of the square.

c. $\frac{1}{5}$ is greater than $\frac{1}{4}$.

8 Same denominator



Compare with $>$, $<$ or $=$.

a. $\frac{4}{6}$ and $\frac{2}{6}$

b. $\frac{5}{8}$ and $\frac{7}{8}$

Then put these fractions in order from least to greatest: $\frac{3}{6}$, $\frac{5}{6}$, $\frac{1}{6}$, $\frac{4}{6}$.

9 Same numerator



Compare with $>$, $<$ or $=$, and say which rule you use.

a. $\frac{3}{4}$ and $\frac{3}{8}$

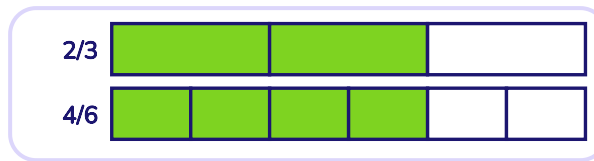
b. $\frac{5}{6}$ and $\frac{5}{8}$

Order from least to greatest: $\frac{2}{3}$, $\frac{2}{6}$, $\frac{2}{4}$.

10 Equal or not?



Look at the bars. They have the same length.



a. Are $\frac{2}{3}$ and $\frac{4}{6}$ equal? Explain with the picture.

b. Fill in the blanks: $\frac{1}{2} = \frac{?}{6}$ and $\frac{3}{4} = \frac{?}{8}$.

11 Fractions beyond 1



A number line from 0 to 2 has each unit cut into thirds.



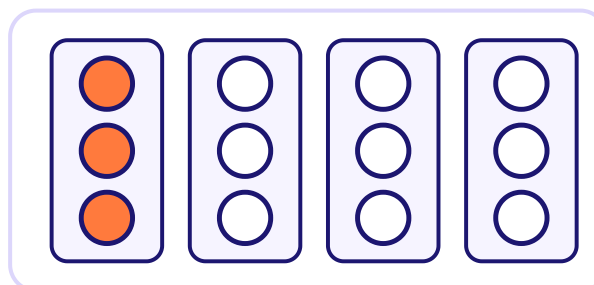
a. Name the fractions at P and at Q.

b. Which point is closer to 2?

12 Crayons in a box



A box holds 12 crayons in 4 equal groups. Red crayons are $\frac{1}{4}$ of the box.



a. How many crayons are red?

b. What fraction of the crayons are not red, and how many are they?

13 Slices of banana bread



Nora cuts a loaf of banana bread into 8 equal slices. She eats 3 slices and her brother eats 2 slices.

- What fraction of the loaf did Nora eat? Her brother?
- What fraction did they eat together?
- What fraction of the loaf is left?

14 Wholes written as fractions



- Write 2 as a fraction with denominator 6.
- Write 3 as a fraction with denominator 4.
- How many halves are in 4? Write your answer as a fraction.

15 Compare to one whole



Compare with $>$ or $<$. Use whole numbers as fractions to explain.

- $\frac{4}{4}$ and $\frac{5}{6}$
- $\frac{6}{3}$ and $\frac{7}{4}$

16 Find the mistake



Leo says: " $\frac{1}{8}$ is greater than $\frac{1}{3}$ because 8 is greater than 3."

- Explain Leo's mistake.
- Draw or describe a picture that shows the correct comparison.

17 Marbles in a bag



A bag holds 24 marbles. Of them, $\frac{3}{8}$ are blue, $\frac{1}{6}$ are green, and $\frac{2}{3}$ of them are glass.

- How many marbles are blue?
- How many marbles are green? How many marbles are not green?
- How many marbles are glass?

18 Trail race



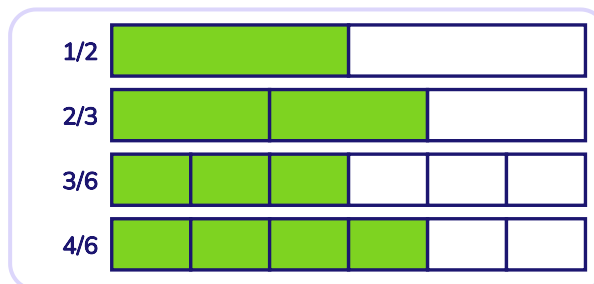
Sam and Ana run on trails of the same length. Sam runs $\frac{3}{4}$ of his trail and Ana runs $\frac{5}{8}$ of hers.

Who ran farther? Use equivalent fractions to explain.

19 Find the equal fractions



The bars below have the same length.



- Which fraction is equal to $\frac{1}{2}$?
- Which fraction is equal to $\frac{2}{3}$?
- Is $\frac{3}{6}$ greater than or less than $\frac{4}{6}$? Is $\frac{1}{2}$ greater than or less than $\frac{2}{3}$?

20 Ribbon in inches



A ribbon is 12 inches long (about 30 centimeters). Maya cuts it into 4 equal pieces.

- What fraction of the ribbon is one piece? How many inches long is it?
- She uses 3 pieces for a gift. What fraction of the ribbon is that? How many inches?

21 Paper strip in centimeters



A paper strip is 24 centimeters long (a little under 10 inches). It is cut into 8 equal pieces.

- How long is one piece?
- Five pieces are painted blue. What fraction of the strip is blue, and how many centimeters is that?
- The rest is red. What fraction is red?



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