

# Fraction Challenge Directions

Each challenge has TWO parts:

1. A question to answer or skill to explain. Use examples and/or models in your explanations and answers
2. Two problems to solve

Use a separate piece of paper to answer the question or prompt and to work out the problems.

To receive credit, your answer or explanation must be in complete sentences and all of your work must be shown on the paper.

Good luck!

## Fraction Challenge

Challenge 1	What does it mean to write a fraction in simplest form?  <u>Simplify:</u> 1.) $\frac{6}{8}$ 2.) $\frac{8}{24}$
Challenge 2	What steps do you take to write an improper fraction as a mixed number?  <u>Rewrite as a mixed number:</u> 1.) $\frac{37}{6}$ 2.) $\frac{57}{9}$
Challenge 3	Why do you have to make the denominators the same before adding and subtracting fractions?  <u>Solve:</u> 1.) $\frac{3}{4} + \frac{2}{3} =$ 2.) $\frac{4}{6} - \frac{3}{8} =$
Challenge 4	How do you borrow from the whole when you are subtracting mixed numbers?  <u>Solve:</u> 1.) $2 \frac{1}{2} - 1 \frac{7}{8} =$ 2.) $3 \frac{2}{6} - 1 \frac{2}{3} =$
Challenge 5	Explain the steps you would take to multiply a fraction by a whole number.  <u>Solve:</u> 1.) $\frac{1}{3} \times 9 =$ 2.) $6 \times \frac{1}{2}$
Challenge 6	Explain how a model can be used to multiply two fractions.  <u>Solve:</u> 1.) $\frac{2}{3} \times \frac{1}{2} =$ 2.) $\frac{1}{4} \times \frac{2}{5} =$
Challenge 7	What steps do you take to multiply mixed numbers?  <u>Solve:</u> 1.) $2 \frac{3}{4} \times 1 \frac{1}{2} =$ 2.) $2 \times 1 \frac{2}{3} =$

## Fraction Challenge

Challenge 1	What does it mean to write a fraction in simplest form?  <u>Simplify:</u> 1.) $6/8 = 3/4$ 2.) $8/24 = 1/3$
Challenge 2	What steps do you take to write an improper fraction as a mixed number?  1.) $37/6 = 6 \frac{1}{6}$ 2.) $57/9 = 6 \frac{1}{3}$
Challenge 3	Why do you have to make the denominators the same before adding and subtracting fractions?  1.) $3/4 + 2/3 = 1 \frac{5}{12}$ 2.) $4/6 - 3/8 = 7/24$
Challenge 4	How do you borrow from the whole when you are subtracting mixed numbers?  1.) $2 \frac{1}{2} - 1 \frac{7}{8} = 5/8$ 2.) $3 \frac{2}{6} - 1 \frac{2}{3} = 1 \frac{2}{3}$
Challenge 5	Explain the steps you would take to multiply a fraction by a whole number.  <u>Solve:</u> 1.) $1/3 \times 9 = 3$ 2.) $6 \times 1/2 = 3$
Challenge 6	Explain how a model can be used to multiply two fractions.  <u>Solve:</u> 1.) $2/3 \times 1/2 = 1/3$ 2.) $1/4 \times 2/5 = 1/10$
Challenge 7	What steps do you take to multiply mixed numbers?  <u>Solve:</u> 1.) $2 \frac{3}{4} \times 1 \frac{1}{2} = 4 \frac{1}{8}$ 2.) $2 \times 1 \frac{2}{3} = 3 \frac{1}{3}$

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