

Fractions to Decimals



Convert each fraction to its decimal form.

If the decimal is a repeating decimal, make sure to include the vinculum in your answer.

$$\frac{1}{2} =$$

$$\frac{1}{5} =$$

$$\frac{1}{4} =$$

$$\frac{2}{5} =$$

$$\frac{1}{3} =$$

$$\frac{4}{5} =$$

$$\frac{2}{3} =$$

$$\frac{9}{10} =$$

$$\frac{1}{8} =$$

$$\frac{5}{8} =$$

$$\frac{1}{9} =$$



Equivalent Fractions

Learning Goal: to make equivalent fractions by multiplying or dividing by one whole.

Example:

$$\frac{10}{15} \div \frac{5}{5} = \frac{2}{3}$$

One whole



a) $\frac{2}{3} \times \frac{2}{2} = \underline{\hspace{2cm}}$

f) $\frac{14}{22} \div \frac{2}{2} = \underline{\hspace{2cm}}$

b) $\frac{6}{7} \times \frac{3}{3} = \underline{\hspace{2cm}}$

g) $\frac{12}{20} \div \frac{4}{4} = \underline{\hspace{2cm}}$

c) $\frac{4}{9} \times \frac{5}{5} = \underline{\hspace{2cm}}$

h) $\frac{21}{24} \div \frac{3}{3} = \underline{\hspace{2cm}}$

d) $\frac{3}{5} \times \frac{4}{4} = \underline{\hspace{2cm}}$

i) $\frac{24}{36} \div \frac{6}{6} = \underline{\hspace{2cm}}$

e) $\frac{6}{7} \times \frac{2}{2} = \underline{\hspace{2cm}}$

j) $\frac{15}{20} \div \frac{5}{5} = \underline{\hspace{2cm}}$

SUBTRACTING FRACTIONS

Solve each problem and simplify your answer to lowest terms.

1.

$$3\frac{1}{5} - \frac{2}{7} =$$

2.

$$\frac{2}{4} - \frac{2}{8} =$$

3.

$$2\frac{1}{3} - 1\frac{3}{8} =$$

4.

$$7\frac{1}{3} - \frac{1}{2} =$$

5.

$$\frac{6}{8} - \frac{5}{32} =$$

6.

$$6\frac{1}{6} - 3\frac{3}{4} =$$

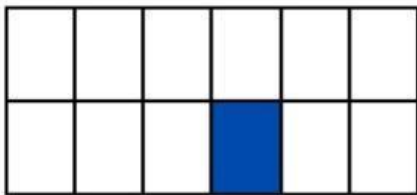
What Fraction Am I?

Match the illustration to the correct fraction.



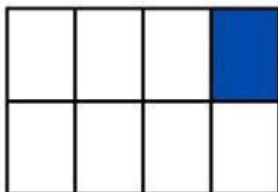
•

• $\frac{1}{12}$



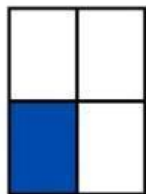
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• $\frac{1}{3}$



•

• $\frac{1}{4}$



•

• $\frac{1}{8}$



•

• $\frac{1}{2}$



FRACTIONS



Shade the parts according to the fraction.

$$\frac{1}{2}$$

--	--

$$\frac{3}{9}$$

$$\frac{2}{3}$$

--	--	--

$$\frac{5}{10}$$

$$\frac{3}{4}$$

$$\frac{5}{6}$$

$$\frac{1}{5}$$

--	--	--	--	--

$$\frac{4}{7}$$

--	--	--	--	--	--	--

$$\frac{3}{6}$$

$$\frac{2}{4}$$

$$\frac{5}{8}$$

$$\frac{3}{10}$$

Adding Like Fractions

Example: When the denominator is the same, you can add the numerators to solve addition problems.

Numerator	4	+	5	=	9
Denominator	10		10		10

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Solve and simply fractions to lowest terms.

1. $\frac{1}{9} + \frac{4}{9} = \text{---}$

2. $\frac{4}{12} + \frac{4}{12} = \text{---}$

3. $\frac{3}{7} + \frac{2}{7} = \text{---}$

4. $\frac{13}{50} + \frac{17}{50} = \text{---}$

5. $\frac{3}{36} + \frac{9}{36} = \text{---}$

6. $\frac{6}{15} + \frac{4}{15} = \text{---}$

7. $\frac{2}{6} + \frac{3}{6} = \text{---}$

8. $\frac{4}{42} + \frac{3}{42} = \text{---}$

9. $\frac{11}{17} + \frac{4}{17} = \text{---}$

10. $\frac{9}{21} + \frac{8}{21} = \text{---}$

DIVIDING FRACTIONS

Solve each problem and simplify your answer to lowest terms.

1.

$$3\frac{1}{5} \div \frac{2}{7} =$$

2.

$$\frac{2}{4} \div \frac{2}{8} =$$

3.

$$2\frac{1}{3} \div 1\frac{3}{8} =$$

4.

$$7 \div \frac{1}{2} =$$

5.

$$\frac{6}{8} \div \frac{2}{9} =$$

6.

$$6\frac{1}{6} \div 3\frac{3}{4} =$$

MULTIPLYING FRACTIONS

Solve each problem and simplify your answer to lowest terms.

1.

$$\frac{1}{7} \times 2\frac{6}{8} =$$

2.

$$\frac{3}{7} \times \frac{2}{5} =$$

3.

$$7\frac{1}{4} \times 1\frac{2}{5} =$$

4.

$$\frac{3}{9} \times 7\frac{1}{2} =$$

5.

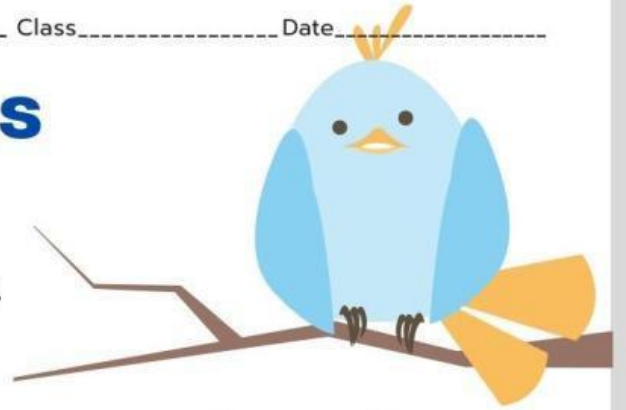
$$\frac{1}{6} \times \frac{6}{8} =$$

6.

$$2\frac{5}{8} \times 1\frac{3}{4} =$$

Dividing Fractions

Divide each set of fractions.
Make sure to simplify your answer.



$$\frac{1}{9} \div \frac{4}{12}$$

$$\frac{2}{16} \div \frac{8}{11}$$

$$\frac{3}{7} \div \frac{2}{10}$$

$$\frac{21}{5} \div \frac{8}{9}$$

$$\frac{5}{3} \div \frac{6}{8}$$

$$\frac{20}{1} \div \frac{4}{7}$$

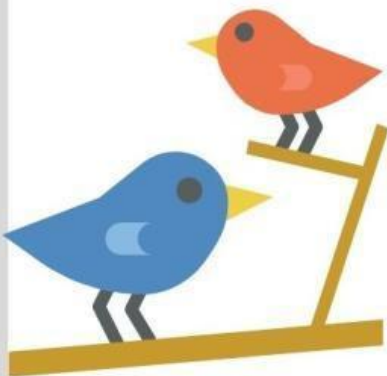
$$\frac{7}{3} \div \frac{6}{15}$$

$$\frac{8}{1} \div \frac{4}{5}$$

$$\frac{9}{5} \div \frac{2}{18}$$

$$\frac{11}{5} \div \frac{4}{2}$$

$$\frac{12}{3} \div \frac{2}{1}$$



Equivalent Fractions

Learning Goal: to make equivalent fractions by multiplying or dividing by one whole.

Example:

$$\frac{10}{15} \div \frac{5}{5} = \frac{2}{3}$$

One whole



a) $\frac{2}{3} \times \frac{2}{2} = \underline{\hspace{2cm}}$

f) $\frac{14}{22} \div \frac{2}{2} = \underline{\hspace{2cm}}$

b) $\frac{6}{7} \times \frac{3}{3} = \underline{\hspace{2cm}}$

g) $\frac{12}{20} \div \frac{4}{4} = \underline{\hspace{2cm}}$

c) $\frac{4}{9} \times \frac{5}{5} = \underline{\hspace{2cm}}$

h) $\frac{21}{24} \div \frac{3}{3} = \underline{\hspace{2cm}}$

d) $\frac{3}{5} \times \frac{4}{4} = \underline{\hspace{2cm}}$

i) $\frac{24}{36} \div \frac{6}{6} = \underline{\hspace{2cm}}$

e) $\frac{6}{7} \times \frac{2}{2} = \underline{\hspace{2cm}}$

j) $\frac{15}{20} \div \frac{5}{5} = \underline{\hspace{2cm}}$

EQUIVALENT FRACTIONS

Learning Goal: to make equivalent fractions by multiplying or dividing by one whole.

Example:

$$\frac{6}{8} \div \frac{2}{2} = \frac{3}{4}$$

One whole



a) $\frac{3}{5} \times \frac{2}{2} = \underline{\hspace{2cm}}$

f) $\frac{10}{12} \div \frac{2}{2} = \underline{\hspace{2cm}}$

b) $\frac{12}{14} \times \frac{2}{2} = \underline{\hspace{2cm}}$

g) $\frac{12}{15} \div \frac{3}{3} = \underline{\hspace{2cm}}$

c) $\frac{2}{3} \times \frac{3}{3} = \underline{\hspace{2cm}}$

h) $\frac{8}{16} \div \frac{4}{4} = \underline{\hspace{2cm}}$

d) $\frac{4}{5} \times \frac{4}{4} = \underline{\hspace{2cm}}$

i) $\frac{25}{30} \div \frac{5}{5} = \underline{\hspace{2cm}}$

e) $\frac{6}{7} \times \frac{2}{2} = \underline{\hspace{2cm}}$

j) $\frac{16}{20} \div \frac{2}{2} = \underline{\hspace{2cm}}$

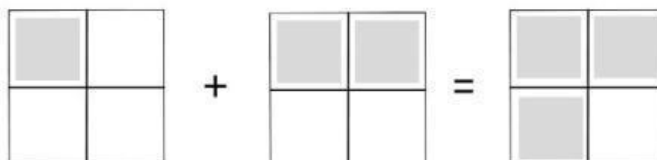
FRACTION ADDITION

Learning Intention: To add fractions with like denominators

HOT TIP

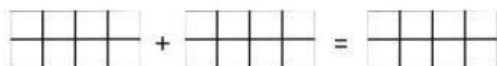
When adding fractions with the same denominator, only add the numerator

$$\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$$



Instructions: Resolve the fraction additions and use the boxes to represent your working:

1. $\frac{2}{8} + \frac{5}{8} = \underline{\quad}$



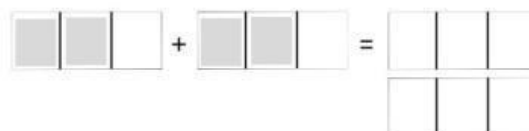
2. $\frac{4}{8} + \frac{3}{8} = \underline{\quad}$



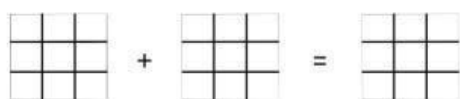
3. $\underline{\quad} + \underline{\quad} = \underline{\quad}$



4. $\underline{\quad} + \underline{\quad} = \underline{\quad}$



5. $\frac{3}{9} + \frac{5}{9} = \underline{\quad}$



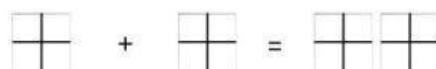
6. $\frac{1}{9} + \frac{2}{9} = \underline{\quad}$



7. $1\frac{1}{4} + \frac{2}{4} = \underline{\quad}$



8. $\frac{3}{4} + \frac{3}{4} = \underline{\quad}$



ORDERING FRACTIONS

Arrange the set of fractions. Write them in the boxes from greatest to least.

$$\frac{2}{5} \quad \frac{1}{5} \quad \frac{4}{5} \quad \frac{3}{5}$$

→→→→

$$\frac{6}{8} \quad \frac{4}{8} \quad \frac{7}{8} \quad \frac{1}{8}$$

→→→→

$$\frac{4}{6} \quad \frac{1}{6} \quad \frac{2}{6} \quad \frac{5}{6}$$

→→→→

$$\frac{5}{9} \quad \frac{3}{9} \quad \frac{7}{9} \quad \frac{8}{9}$$

→→→→

$$\frac{3}{10} \quad \frac{5}{10} \quad \frac{8}{10} \quad \frac{1}{10}$$

→→→→

Arrange the set of fractions. Write them in the boxes from least to greatest.

$$\frac{1}{8} \quad \frac{1}{5} \quad \frac{1}{4} \quad \frac{1}{6}$$

→→→→

$$\frac{1}{5} \quad \frac{1}{2} \quad \frac{1}{3} \quad \frac{1}{4}$$

→→→→

$$\frac{1}{7} \quad \frac{1}{3} \quad \frac{1}{5} \quad \frac{1}{6}$$

→→→→

$$\frac{1}{6} \quad \frac{1}{2} \quad \frac{1}{4} \quad \frac{1}{5}$$

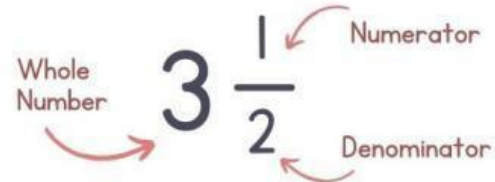
→→→→

$$\frac{1}{8} \quad \frac{1}{5} \quad \frac{1}{10} \quad \frac{1}{2}$$

→→→→

Mixed Fraction

A mixed fraction, is a combination of a whole number and a proper fraction.



$$3 \frac{1}{2}$$

Converting mixed fraction into an improper fraction :

Multiply the whole number by the denominator: $3 \times 2 = 6$

Add the result by the numerator: $6 + 1 = 7$

$$3 \frac{1}{2} = \frac{7}{2}$$

Convert the following mixed fractions into improper fractions!

$$1 \frac{1}{2} = \frac{\quad}{\quad}$$

$$4 \frac{3}{4} = \frac{\quad}{\quad}$$

$$5 \frac{2}{3} = \frac{\quad}{\quad}$$

$$9 \frac{4}{5} = \frac{\quad}{\quad}$$

$$7 \frac{1}{3} = \frac{\quad}{\quad}$$

$$4 \frac{2}{7} = \frac{\quad}{\quad}$$

FRACTIONS TO DECIMALS

Convert the fractions to a monetary value in decimal form. The first has been done for you. Remember to:

- Use correct money symbol
- Include two place values after the decimal

$6 \frac{22}{100} = \$6.22$	$14 \frac{2}{100} = \square$	$\frac{12}{100} = \square$
$22 \frac{5}{10} = \square$	$13 \frac{65}{100} = \square$	$1 \frac{50}{100} = \square$
$3 \frac{4}{100} = \square$	$9 \frac{95}{100} = \square$	$2 \frac{40}{100} = \square$
$\frac{33}{100} = \square$	$1 \frac{12}{100} = \square$	$10 \frac{25}{100} = \square$
$100 \frac{43}{100} = \square$	$\frac{50}{100} = \square$	$5 \frac{3}{10} = \square$
$8 \frac{20}{100} = \square$	$4 \frac{30}{100} = \square$	$15 \frac{60}{100} = \square$
$50 \frac{5}{100} = \square$	$\frac{2}{100} = \square$	$2 \frac{80}{100} = \square$