

# Adding Fractions #1

Name: \_\_\_\_\_

## Exercises

1. Add.

a)  $\frac{1}{7} + \frac{3}{7}$

b)  $\frac{1}{6} + \frac{4}{6}$

c)  $\frac{3}{8} + \frac{2}{8}$

d)  $\frac{3}{9} + \frac{4}{9}$

e)  $\frac{2}{15} + \frac{5}{15}$

f)  $\frac{3}{11} +$

2. Add.

a)  $\frac{1}{8} + \frac{3}{8}$

b)  $\frac{2}{6} + \frac{1}{6}$

c)  $\frac{5}{10} + \frac{3}{10}$

d)  $\frac{7}{16} + \frac{5}{16}$

e)  $\frac{1}{12} + \frac{9}{12}$

f)  $\frac{5}{13} +$

3. Add.

a)  $\frac{2}{9} + \frac{1}{9}$

b)  $\frac{5}{8} + \frac{3}{16}$

c)  $\frac{2}{15} + \frac{3}{5}$

d)  $\frac{5}{21} + \frac{4}{7}$

e)  $\frac{5}{18} + \frac{2}{3}$

f)  $\frac{7}{27} + \frac{5}{9}$

5. Add.

a)  $\frac{1}{6} + \frac{1}{3}$

b)  $\frac{1}{12} + \frac{1}{4}$

c)  $\frac{5}{18} + \frac{1}{2}$

d)  $\frac{4}{15} + \frac{1}{3}$

e)  $\frac{1}{10} + \frac{2}{5}$

f)  $\frac{3}{5} + \frac{1}{2}$

g)  $\frac{3}{4} + \frac{2}{3}$

h)  $\frac{2}{3} + \frac{4}{5}$

i)  $\frac{5}{6} + \frac{3}{4}$

j)  $\frac{9}{10} + \frac{3}{4}$

6. Add.

a)  $\frac{1}{2} + \frac{1}{4} + \frac{1}{12}$

b)  $\frac{4}{15} + \frac{1}{3} + \frac{2}{5}$

c)  $\frac{3}{10} + \frac{1}{5} + \frac{1}{6}$

d)  $\frac{3}{8} + \frac{1}{6} + \frac{5}{12}$

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e)  $\frac{2}{3} + \frac{1}{6} + \frac{3}{4}$

f)  $\frac{2}{5} + \frac{3}{10} + \frac{1}{4}$

g)  $\frac{5}{4} + \frac{1}{6} + \frac{2}{3}$

h)  $\frac{1}{8} + \frac{5}{6} + \frac{3}{4}$

# Subtracting Fractions

Name: \_\_\_\_\_

## Exercises

1. Subtract.

a)  $\frac{4}{5} - \frac{1}{5}$

b)  $\frac{7}{9} - \frac{3}{9}$

c)  $\frac{7}{8} - \frac{2}{8}$

d)  $\frac{10}{11} - \frac{8}{11}$

e)  $\frac{6}{13} - \frac{1}{13}$

f)  $\frac{8}{15} - \frac{7}{15}$

3. Subtract.

a)  $\frac{7}{8} - \frac{1}{8}$

b)  $\frac{11}{12} - \frac{5}{12}$

c)  $\frac{13}{15} - \frac{4}{15}$

d)  $\frac{8}{9} - \frac{2}{9}$

e)  $\frac{19}{20} - \frac{7}{20}$

4. Subtract.

a)  $\frac{5}{6} - \frac{2}{3}$

b)  $\frac{5}{8} - \frac{1}{4}$

c)  $\frac{8}{9} - \frac{5}{18}$

d)  $\frac{7}{10} - \frac{7}{20}$

e)  $\frac{3}{5} - \frac{6}{25}$

f)  $\frac{9}{10} - \frac{3}{5}$

g)  $\frac{13}{18} - \frac{1}{3}$

h)  $\frac{11}{15} - \frac{1}{5}$

i)  $\frac{3}{4} - \frac{1}{8}$

j)  $\frac{17}{15} - \frac{2}{3}$

7. Find the difference.

a)  $\frac{1}{4} - \frac{1}{5}$

b)  $\frac{5}{6} - \frac{1}{8}$

c)  $\frac{5}{9} - \frac{1}{6}$

d)  $\frac{3}{5} - \frac{3}{8}$

e)  $\frac{11}{12} - \frac{5}{9}$

$$f) \frac{3}{4} - \frac{1}{5}$$

$$g) \frac{11}{12} - \frac{3}{8}$$

$$h) \frac{14}{15} - \frac{1}{2}$$

$$i) \frac{7}{6} - \frac{3}{4}$$

$$j) \frac{13}{10} - \frac{2}{3}$$

8. Simplify.

$$a) \frac{7}{9} - \frac{5}{18}$$

$$b) \frac{8}{15} - \frac{1}{3}$$

$$c) \frac{5}{6} - \frac{2}{15}$$

$$d) \frac{1}{6} - \frac{1}{15}$$

$$e) \frac{7}{10} - \frac{1}{6}$$

$$f) \frac{3}{4} + \frac{5}{6} - \frac{2}{3}$$

$$g) \frac{7}{8} - \frac{1}{2} + \frac{3}{4}$$

$$h) \frac{9}{10} - \frac{2}{5} + \frac{3}{4}$$

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# Dividing Fractions

23  
Calculus  
12/20/14

1. Write the reciprocal.

- a)  $\frac{1}{5}$     b)  $\frac{1}{7}$     c)  $\frac{3}{7}$     d)  $\frac{5}{8}$     e)  $\frac{6}{11}$     f)  $\frac{4}{7}$     g)  $\frac{7}{10}$     h) 9    i) 8    j) 6

2. Divide.

- a)  $6 \div \frac{1}{2}$     b)  $10 \div \frac{1}{8}$     c)  $12 \div \frac{1}{10}$     d)  $9 \div \frac{1}{5}$     e)  $8 \div \frac{1}{7}$     f)  $20 \div \frac{1}{8}$

3. Divide.

- a)  $\frac{1}{5} \div \frac{3}{7}$     b)  $\frac{1}{2} \div \frac{3}{5}$     c)  $\frac{2}{3} \div \frac{3}{4}$     d)  $\frac{1}{4} \div \frac{7}{11}$     e)  $\frac{1}{8} \div \frac{3}{11}$     f)  $\frac{5}{6} \div \frac{7}{12}$

- g)  $\frac{3}{4} \div 9$     h)  $\frac{8}{9} \div \frac{1}{10}$     i)  $8 \div \frac{3}{2}$     j)  $\frac{4}{7} \div \frac{4}{3}$     k)  $\frac{3}{5} \div \frac{7}{10}$     l)  $\frac{7}{8} \div \frac{3}{4}$

4. DATA BASE

Between the goalposts, a football field is about  $\frac{1}{10}$  km long. How many fields could be placed end to end along the Trans-Canada Highway?  
(8030 km)

5. A  $\frac{3}{4}$ -full jug of lemonade can fill 9 glasses. How many glasses can be filled from a full jug?

6. Divide.

a)  $\frac{2}{5} \div \frac{1}{10}$

b)  $\frac{3}{10} \div \frac{4}{5}$

c)  $\frac{5}{1} \div \frac{1}{10}$

d)  $\frac{4}{5} \div \frac{3}{5}$

e)  $\frac{3}{8} \div \frac{3}{7}$

f)  $\frac{4}{7} \div \frac{5}{7}$

g)  $\frac{5}{12} \div \frac{3}{4}$

h)  $\frac{7}{12} \div \frac{3}{4}$

i)  $\frac{11}{16} \div \frac{5}{8}$

j)  $\frac{5}{16} \div \frac{3}{4}$

k)  $\frac{11}{12} \div \frac{5}{24}$

l)  $\frac{4}{7} \div \frac{3}{14}$

Exercises

# Multiplication

1. Multiply.

a)  $\frac{1}{5} \times \frac{3}{4}$

b)  $\frac{1}{7} \times \frac{3}{5}$

c)  $\frac{1}{8} \times \frac{5}{6}$

d)  $\frac{1}{3} \times \frac{5}{7}$

e)  $\frac{3}{4} \times \frac{3}{4}$

f)  $\frac{2}{5} \times \frac{4}{7}$

g)  $\frac{2}{3} \times \frac{4}{5}$

2. Multiply.

a)  $\frac{2}{3} \times \frac{3}{5}$

b)  $\frac{3}{4} \times \frac{4}{5}$

c)  $\frac{5}{6} \times \frac{6}{7}$

d)  $\frac{3}{7} \times \frac{2}{3}$

e)  $\frac{8}{5} \times \frac{5}{9}$

f)  $\frac{7}{4} \times \frac{4}{11}$

4. Find the product.

a)  $\frac{3}{4} \times \frac{2}{5}$

b)  $\frac{5}{8} \times \frac{4}{5}$

c)  $\frac{2}{3} \times \frac{9}{20}$

d)  $\frac{5}{6} \times \frac{3}{8}$

e)  $\frac{3}{2} \times \frac{8}{15}$

f)  $\frac{4}{3} \times \frac{15}{16}$

5. Find the product.

a)  $8 \times \frac{3}{8}$

b)  $2 \times \frac{2}{3}$

c)  $\frac{3}{4} \times 16$

d)  $\frac{5}{8} \times 24$

e)  $36 \times \frac{7}{12}$

6. Multiply.

a)  $\frac{1}{3} \times \frac{9}{5}$

b)  $\frac{1}{6} \times \frac{12}{7}$

c)  $\frac{8}{5} \times \frac{3}{16}$

d)  $\frac{4}{7} \times \frac{35}{28}$

e)  $\frac{3}{8} \times \frac{24}{21}$

DUE MONDAY

1. Multiply or divide and leave in lowest terms:

a.  $2\frac{4}{5} \times 1\frac{3}{7} =$

b.  $1\frac{1}{8} \times \frac{-2}{15} =$

c.  $\frac{24}{42} \times \frac{14}{3} \times \frac{20}{9} \times \frac{18}{5} \times \frac{3}{40} =$

d.  $\frac{2}{-3} \div \frac{-14}{5}$

e.  $-3\frac{1}{2} \div \frac{1}{4} =$

f.  $\frac{14}{3} \div 5 \div \frac{21}{2} =$

g.  $\frac{4}{7} \div -\frac{8}{5} \div \frac{-3}{10} \div -2 =$

h.  $30 \cdot \frac{11}{6} =$

i.  $5\frac{1}{3} \div \frac{4}{5} \times -2 =$

j.  $9\frac{2}{3} \times 3\frac{1}{5} \times 1\frac{1}{29} =$

k.  $4\frac{3}{8} \div 2\frac{1}{3} =$