

Multiply Fractions

1. Simplify these rational expressions. Simplify *before* any multiplications.

a. $\frac{5 \times 6}{6 \times 7}$

b. $\frac{10 \times 5}{90}$

c. $\frac{4 \times 15}{5 \times 8}$

d. $\frac{18 \times 30}{25 \times 14}$

e. $\frac{5^2}{40}$

f. $\frac{10 \times 5 \times 3}{20 \times 18}$

g. $\frac{56 \times 6}{7 \times 21}$

h. $\frac{2 \times 30 \times 4}{16 \times 5}$

i. $\frac{24}{8 \times 3}$

j. $\frac{24}{8 - 3}$

k. $\frac{24}{8 + 3}$

l. $\frac{4 \times 12}{8} + \frac{5 \times 21}{7}$

2. Multiply the fractions. Simplify, if you can, before you multiply.

a. $\frac{5}{6} \times \frac{18}{20}$

b. $\frac{3}{4} \times \frac{7}{5}$

c. $\frac{2}{3} \times 6$

d. $\left(\frac{2}{7}\right)^2$

e. $\left(\frac{1}{2}\right)^5$

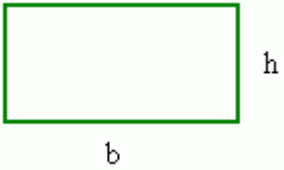
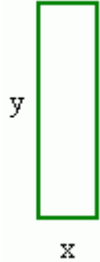
f. $\left(\frac{7}{10}\right)^2$

g. $7 \times 1\frac{1}{7}$

h. $9 \times \frac{4}{15}$

i. $2\frac{1}{3} \times 5\frac{5}{11}$

3. Find the area and perimeter of the rectangles, if...

 <p>a. ... $h = \frac{3}{4}$" and $b = 1\frac{3}{16}$".</p>	<p>b. ... $x = \frac{1}{2}$ ft and $y = 2\frac{3}{4}$ ft.</p> 
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4. Solve.

a. $\frac{4}{5} \times \frac{3}{8} + \frac{1}{2}$

b. $2\frac{4}{7} \times 1\frac{2}{5} - 1\frac{1}{2}$

c. $\frac{17}{20} - \frac{1}{2} \times \frac{5}{6}$

5. Simplify.

a. $\frac{12 \times 10}{35 \times 20} \times \frac{5}{8}$

b. $\frac{12 + 10}{35 + 20} \times \frac{5}{8}$

c. $\frac{12 \times 10}{35 - 20} \times \frac{5}{8}$