

Multiplying and Dividing Fractions

1. Simplify the following calculations:

a. $\frac{6 \times 8}{7 \times 3}$

b. $\frac{6 \times 8}{7 \times 8}$

c. $\frac{12 \times 5}{7 \times 8}$

d. $\frac{15 \times 8}{8 \times 9}$

e. $\frac{12 \times 20}{5 \times 9}$

f. $\frac{18 \times 21}{7 \times 5}$

g. $\frac{32 \times 27}{6 \times 16}$

h. $\frac{17 \times 18}{12 \times 7}$

2. Find:

a. $\frac{4}{5} \times \frac{7}{9}$

b. $\frac{3}{7} \times \frac{5}{6}$

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

d. $\frac{5}{8} \times \frac{7}{3}$

e. $\frac{8}{15} \times \frac{9}{7}$

f. $\frac{6}{7} \times \frac{9}{20}$

g. $\frac{5}{18} \times \frac{12}{11}$

h. $\frac{12}{7} \times \frac{28}{15}$

g. $8 \times \frac{5}{9}$

h. $12 \times \frac{5}{8}$

i. $\frac{3}{8} \times 9$

j. $\frac{7}{12} \times 15$

3. Calculate:

a. $\frac{8}{7} \div \frac{12}{5}$

b. $\frac{9}{11} \div \frac{15}{2}$

c. $\frac{9}{11} \div \frac{7}{13}$

d. $\frac{6}{11} \div \frac{14}{3}$

e. $\frac{18}{13} \div \frac{5}{6}$

f. $\frac{24}{15} \div \frac{10}{9}$

g. $\frac{18}{7} \div \frac{16}{5}$

h. $\frac{19}{12} \div \frac{5}{8}$

g. $8 \div \frac{5}{7}$

h. $6 \div \frac{3}{5}$

i. $\frac{7}{8} \div 6$

j. $\frac{8}{7} \div 6$

4. Create three multiplication calculations (different to those above) that do not simplify.

5. Create three multiplication calculations (different to those above) that do simplify.

6. Create three division calculations (different to those above) that do not simplify.

7. Create three division calculations (different to those above) that do simplify.

8. Find the missing fraction in each of the following calculations:

a. $\frac{1}{10} \div \dots = \frac{9}{40}$

b. $\frac{3}{8} \div \dots = \frac{27}{72}$

c. $\dots \div \frac{7}{10} = \frac{28}{3}$

d. $\dots \div \frac{13}{15} = \frac{26}{3}$

e. $\frac{9}{7} \times \dots = \frac{45}{56}$

f. $\dots \times \frac{6}{7} = \frac{72}{35}$

g. $\dots \div \frac{9}{8} = \frac{27}{14}$

h. $\frac{9}{8} \div \dots = \frac{12}{5}$