

Name:

Class/Set:

Multiplying and Dividing Fractions

1: Work out the following, showing your method and simplifying your answer:

a) $\frac{4}{9} \div \frac{5}{6}$

b) $\frac{5}{9} \times \frac{1}{10}$

c) $\frac{1}{9} \div \frac{3}{7}$

d) $\frac{3}{10} \times \frac{4}{7}$

e) $\frac{2}{5} \div \frac{9}{10}$

f) $\frac{1}{3} \times \frac{3}{8}$

g) $\frac{3}{4} \times \frac{7}{10}$

h) $\frac{1}{6} \div \frac{6}{7}$

i) $\frac{7}{8} \times \frac{2}{9}$

j) $\frac{1}{8} \div \frac{7}{9}$

Answers: Multiplying and Dividing Fractions

1: a) $\frac{4}{9} \div \frac{5}{6} = \frac{4}{9} \times \frac{6}{5} = \frac{4}{3} \times \frac{2}{5} = \frac{8}{15}$

b) $\frac{5}{9} \times \frac{1}{10} = \frac{1}{9} \times \frac{1}{2} = \frac{1}{18}$

c) $\frac{1}{9} \div \frac{3}{7} = \frac{1}{9} \times \frac{7}{3} = \frac{7}{27}$

d) $\frac{3}{10} \times \frac{4}{7} = \frac{3}{5} \times \frac{2}{7} = \frac{6}{35}$

e) $\frac{2}{5} \div \frac{9}{10} = \frac{2}{5} \times \frac{10}{9} = \frac{2}{1} \times \frac{2}{9} = \frac{4}{9}$

f) $\frac{1}{3} \times \frac{3}{8} = \frac{1}{1} \times \frac{1}{8} = \frac{1}{8}$

g) $\frac{3}{4} \times \frac{7}{10} = \frac{21}{40}$

h) $\frac{1}{6} \div \frac{6}{7} = \frac{1}{6} \times \frac{7}{6} = \frac{7}{36}$

i) $\frac{7}{8} \times \frac{2}{9} = \frac{7}{4} \times \frac{1}{9} = \frac{7}{36}$

j) $\frac{1}{8} \div \frac{7}{9} = \frac{1}{8} \times \frac{9}{7} = \frac{9}{56}$