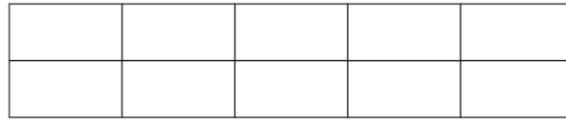# Dividing Fractions

1a) Use the diagram below to shade in $\frac{8}{10}$.

Use the diagram you have just done to explain:

1b) How many $\frac{1}{10}$ fit in to $\frac{8}{10}$ 1c) How many $\frac{2}{10}$ fit in to $\frac{8}{10}$ 1d) How many $\frac{4}{10}$ fit in to $\frac{8}{10}$

2) How would question 1 help you answer these questions:

a) $\frac{8}{10} \div \frac{1}{10}$ b) $\frac{8}{10} \div \frac{2}{10}$ c) $\frac{8}{10} \div \frac{4}{10}$

3) What conclusions can you make from question 2?

4) Use your answer to question 3 to help calculate these questions:

a) $\frac{8}{12} \div \frac{4}{12}$ b) $\frac{8}{12} \div \frac{2}{6}$ c) $\frac{10}{12} \div \frac{2}{12}$ d) $\frac{10}{12} \div \frac{1}{6}$

5) Did you revise your answer to question 3 after answering question 4?

6) Use your revised approach to answer the following questions:

a) $\frac{2}{3} \div \frac{1}{6}$ b) $\frac{8}{10} \div \frac{2}{5}$ c) $\frac{12}{21} \div \frac{2}{7}$ d) $\frac{8}{12} \div \frac{1}{3}$

7) Answer these questions, leaving your answers in exact form.

a) $1 \div 3$ b) $2 \div 3$ c) $7 \div 3$ d) $5 \div 7$

8) Combine what you have learnt from the previous questions to answer these:

a) $\frac{2}{3} \div \frac{3}{6}$ b) $\frac{2}{3} \div \frac{1}{2}$ c) $\frac{4}{3} \div \frac{1}{2}$ d) $1\frac{1}{3} \div \frac{1}{2}$

e) $\frac{3}{5} \div \frac{11}{15}$ f) $\frac{3}{7} \div \frac{2}{5}$ g) $\frac{2}{5} \div \frac{3}{7}$ h) $1\frac{1}{3} \div 2\frac{5}{6}$