

a)
$$6 \div \frac{1}{3} =$$

b)
$$6 \div \frac{1}{4} =$$

2



To divide a number by a fraction you multiply by its reciprocal.

$$3 \div \frac{4}{5} = 3 \times \frac{5}{4} = \frac{15}{4} = 3\frac{3}{4}$$

$$\frac{5}{8} \div \frac{1}{4} = \frac{5}{8} \times \frac{4}{1} = \frac{20}{8} = \frac{5}{2} = 2\frac{1}{2}$$

Use Rosie's method to complete the calculations.

a)
$$\frac{2}{3} \div \frac{1}{6} =$$

e)
$$\frac{3}{5} \div \frac{3}{4} =$$

b)
$$\frac{1}{6} \div \frac{2}{3} =$$

f)
$$\frac{3}{4} \div \frac{3}{5} =$$

c)
$$5 \div \frac{3}{10} =$$

g)
$$\frac{11}{16} \div \frac{3}{4} =$$

d)
$$\frac{3}{10} \div 5 =$$

h)
$$\frac{3}{4} \div \frac{11}{16} =$$

3

To divide a pair of fractions, convert them so they have the same denominator and then divide the numerators.



$$\frac{5}{8} \div \frac{1}{4} = \frac{5}{8} \div \frac{2}{8} = \frac{5}{2} = 2\frac{1}{2}$$

$$3 \div \frac{4}{5} = \frac{3}{1} \div \frac{4}{5} = \frac{15}{5} \div \frac{4}{5} = \frac{15}{4} = 3\frac{3}{4}$$

Use Dexter's method to work out:

a)
$$\frac{2}{3} \div \frac{1}{6} =$$

e)
$$\frac{3}{5} \div \frac{3}{4} =$$

b)
$$\frac{1}{6} \div \frac{2}{3} =$$

f)
$$\frac{3}{4} \div \frac{3}{5} =$$

c)
$$5 \div \frac{3}{10} =$$

g)
$$\frac{11}{16} \div \frac{3}{4} =$$

d)
$$\frac{3}{10} \div 5 =$$

h)
$$\frac{3}{4} \div \frac{11}{16} =$$

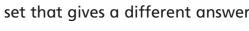
- Compare your answers to questions 2 and 3 Which method did you prefer using, and why? Discuss it with a partner.
- Look at the method shown to work out $4 \div 0.6$

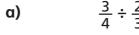
$$4 \div 0.6 = 4 \div \frac{3}{5} = 4 \times \frac{5}{3} = \frac{20}{3} = 6\frac{2}{3}$$

Use this method to complete the calculations.

Convert both decimals into fractions to complete the calculations.

Circle the calculation in each set that gives a different answer.





$$\frac{3}{4} \div \frac{2}{3} \qquad \qquad \frac{3}{4} \times \frac{2}{3}$$

$$\frac{3}{4} \times \frac{3}{2}$$

$$\frac{4}{5} \div \frac{1}{3} \qquad \qquad \frac{1}{3} \div \frac{4}{5}$$

$$\frac{1}{3} \div \frac{4}{5}$$

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

$$\frac{5}{8} \times \frac{2}{3}$$

$$\frac{2}{3}$$
 x -

$$\frac{2}{3} \div \frac{5}{8}$$

$$\frac{5}{8} \times \frac{2}{3} \qquad \qquad \frac{2}{3} \times \frac{5}{8} \qquad \qquad \frac{2}{3} \div \frac{5}{8} \qquad \qquad \frac{5}{8} \div \frac{3}{2}$$

Work out these values if $x = \frac{1}{2}$, $y = \frac{3}{4}$ and $z = \frac{4}{5}$







d)
$$\frac{y}{z}$$

f)
$$\frac{xy}{z}$$















