Four rules with fractions



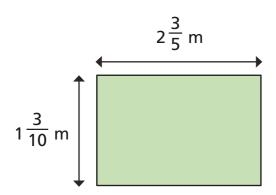
1 Work out the missing total.

2/3	2/3	<u>2</u> 3	<u>2</u> 3	$2\frac{1}{3}$

Show all the steps in your working.

Explain your method to a partner.

Work out the perimeter of the rectangle.



Explain your method to your partner.

Did you work it out in the same way?

Complete the calculations.

a)
$$\left(\frac{2}{3} + \frac{2}{3}\right) \times 3 =$$

b)
$$\left(\frac{2}{3} + \frac{2}{3}\right) \div 3 =$$

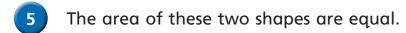
c)
$$\frac{2}{3} + \frac{2}{3} \times 3 =$$

d)
$$\frac{2}{3} + \frac{2}{3} \div 3 =$$

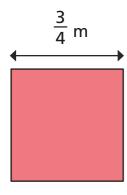
Jack mixes $\frac{2}{3}$ of a litre of orange juice and $\frac{3}{4}$ of a litre of apple juice.

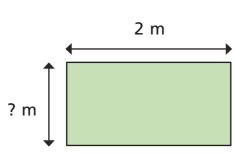
He pours the juice into 5 glasses equally.

How much juice is in each glass?



Find the height of the rectangle.





In a class, $\frac{2}{3}$ of the pupils are boys. $\frac{1}{4}$ of the girls wear glasses and $\frac{1}{6}$ of the boys wear glasses. Do more boys or girls wear glasses?

Explain your reasoning.



7 Work out the calculation.

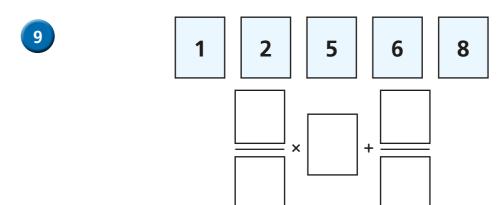
$$\left(1\frac{3}{5}-\frac{7}{10}\right)^2$$

8 Use what you know about working with fractions to explain, prove or disprove the following statements.



Half of a half of a half is an eighth.

b) Quarter of a half plus half of a quarter is a quarter.



Explore the different totals you can make using each card once only.



