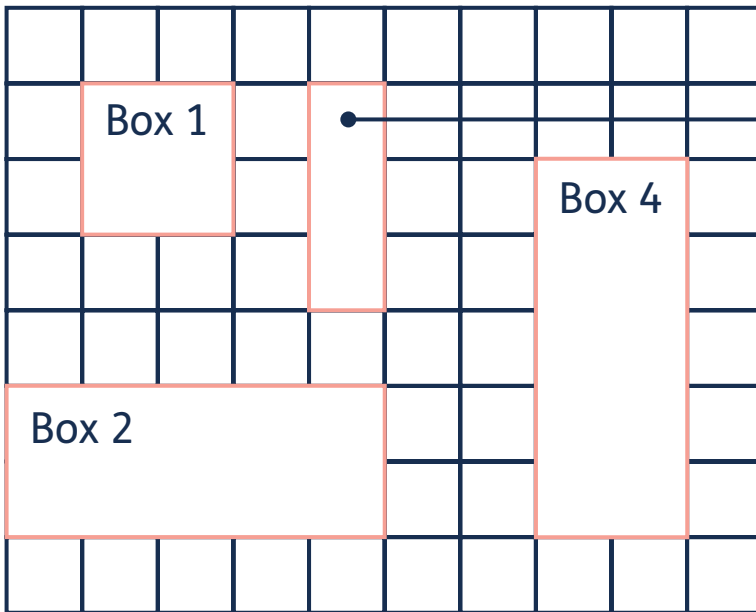


# Fractions, perimeter and area

## Question 1

Take a look at the rectangles below, drawn on grid paper. 1 square = 1 cm<sup>2</sup>



Box 3

**a** What is the area of Box 1?

**b** What is the area of Box 4?

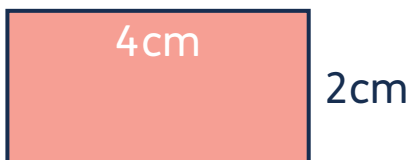
Using the formula of  $\text{Length} \times \text{Width} = \text{Area}$ :

**c** work out the area of Box 2

**d** what is the difference in area in cm<sup>2</sup> of Boxes 2 and 3?

Using the formula  $\text{Area} = \text{Length} \times \text{Width}$ , what is the area of these boxes?

**e**



Area =  cm<sup>2</sup>

**f**



Area =  cm<sup>2</sup>

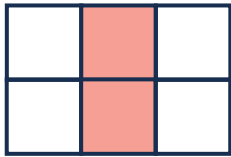


# Fractions, perimeter and area

## Question 2

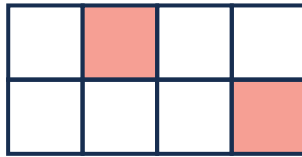
Some parts of these rectangles have been shaded.  
Can you show these as fractions?

**a**



$$\frac{\square}{\square}$$

**b**



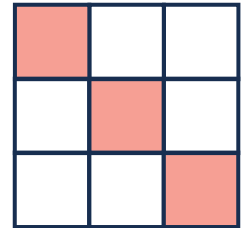
$$\frac{\square}{\square}$$

**c**



$$\frac{\square}{\square}$$

**d**



$$\frac{\square}{\square}$$

Can you show an equivalent fraction for each of the above?

**a**

$$\frac{\square}{\square}$$

**b**

$$\frac{\square}{\square}$$

**c**

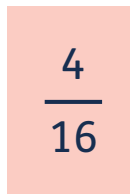
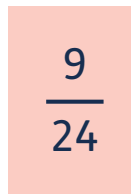
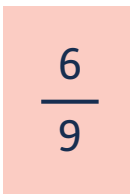
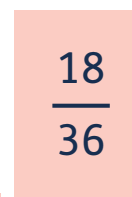
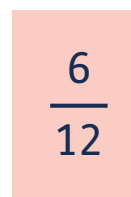
$$\frac{\square}{\square}$$

**d**

$$\frac{\square}{\square}$$

## Question 3

Can you match these pairs of equivalent fractions?



# Fractions, perimeter and area

## Question 4

Convert these improper fractions and mixed numbers.  
Give your answers in their lowest terms.

$$\mathbf{a} \quad \frac{11}{5} = \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\mathbf{b} \quad \frac{5}{4} = \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\mathbf{c} \quad \frac{11}{3} = \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\mathbf{d} \quad \frac{13}{6} = \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\mathbf{e} \quad \frac{41}{8} = \boxed{\phantom{00}} \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\mathbf{f} \quad 4 \frac{1}{2} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\mathbf{g} \quad 2 \frac{4}{7} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\mathbf{h} \quad 2 \frac{2}{9} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\mathbf{i} \quad 8 \frac{1}{8} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

$$\mathbf{j} \quad 6 \frac{3}{5} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Can you order the fractions **a** to **j** from the smallest to the largest?

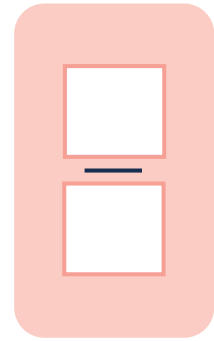


# Fractions, perimeter and area

## Question 5

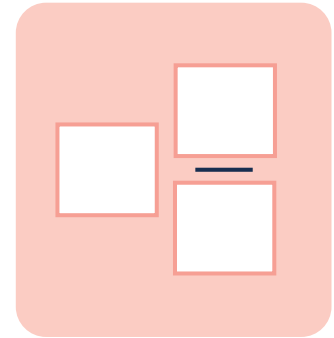
- a** Mikey and Kate were making cookies together. The recipe required  $2\frac{3}{5}$  cups of sugar and double the amount of flour.

Can you show how much flour was needed as an improper fraction?



- b** Gabi needed  $3\frac{5}{8}$  metres of material to make a tablecloth. Jessie needed 3 times as much for her table.

How much material did Jessie need?



- c** Hannah and Mae went strawberry picking. Hannah picked two and three quarters of a punnet and Mae picked half as many.

How many punnets did they have altogether?

