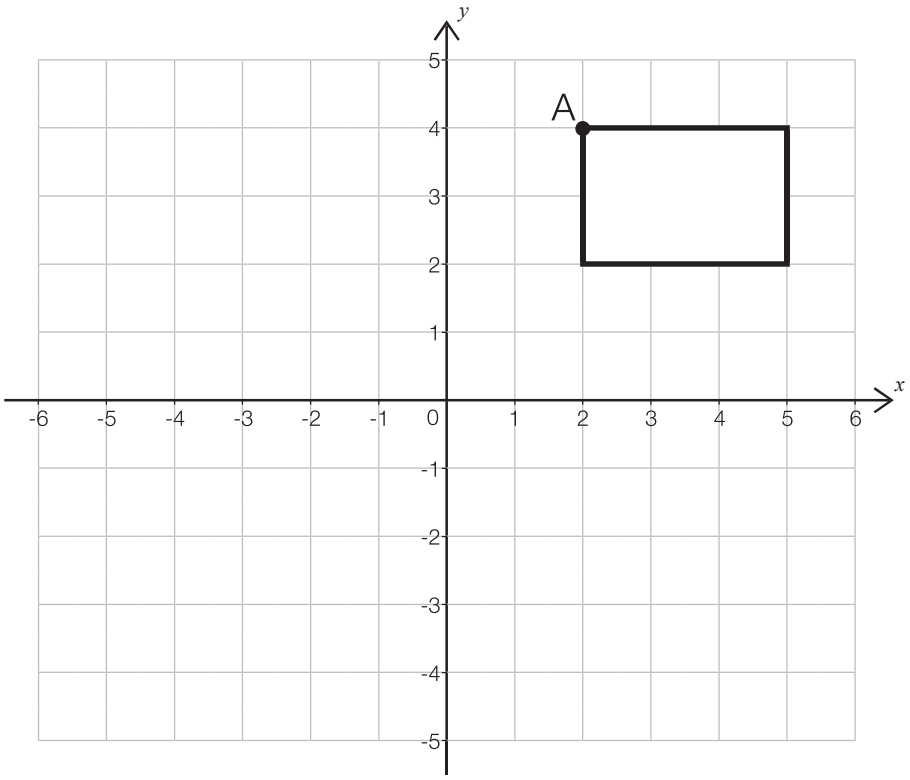
9 Here is a rectangle on a co-ordinate grid.



What are the co-ordinates of vertex A?

(,)

1 mark

Translate the rectangle, 4 left and 7 down.

Draw the new rectangle.

1 mark

Write the co-ordinates of the vertices of the new rectangle.

(,) (,) (,) (,)

1 mark

10 Show that

$$\frac{1}{3} + \frac{1}{4} > \frac{1}{3} \times \frac{1}{4}$$

Show your method

1 mark

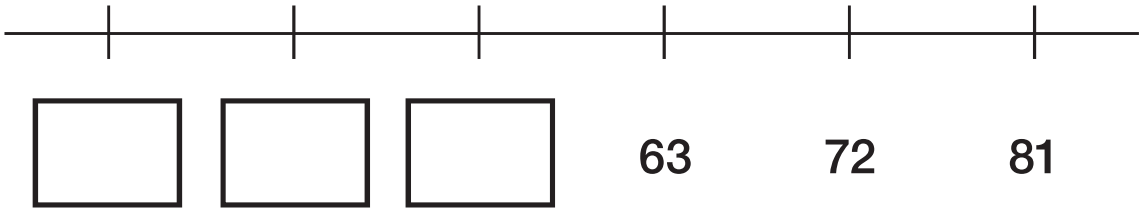
Use **<**, **>** or **=** to make the statement correct.

$$\frac{3}{4} \div 3 \bigcirc \frac{3}{4} \times \frac{1}{3}$$

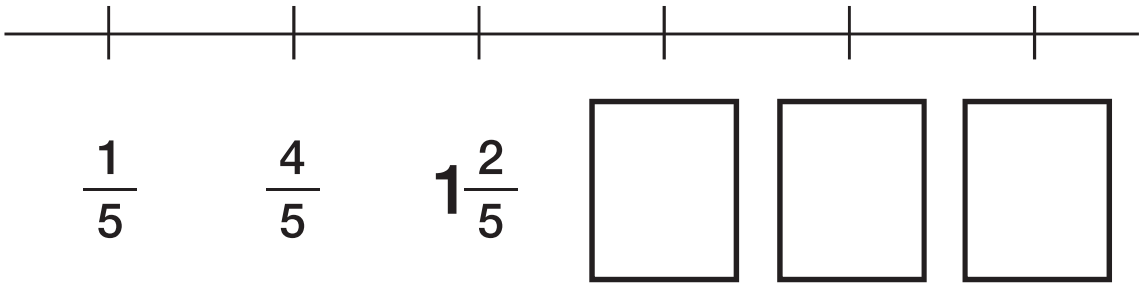
Explain your reasoning.

1 mark

11 Complete the number lines.



1 mark



1 mark

12 A pile of 15 identical books is 1,860 millimetres tall.

Sami takes $\frac{1}{3}$ of the books off the pile.

How tall is the pile of books now?

Show your method

mm

2 marks

13 P and Q are different one-digit **prime** numbers.

R is a **square** number.

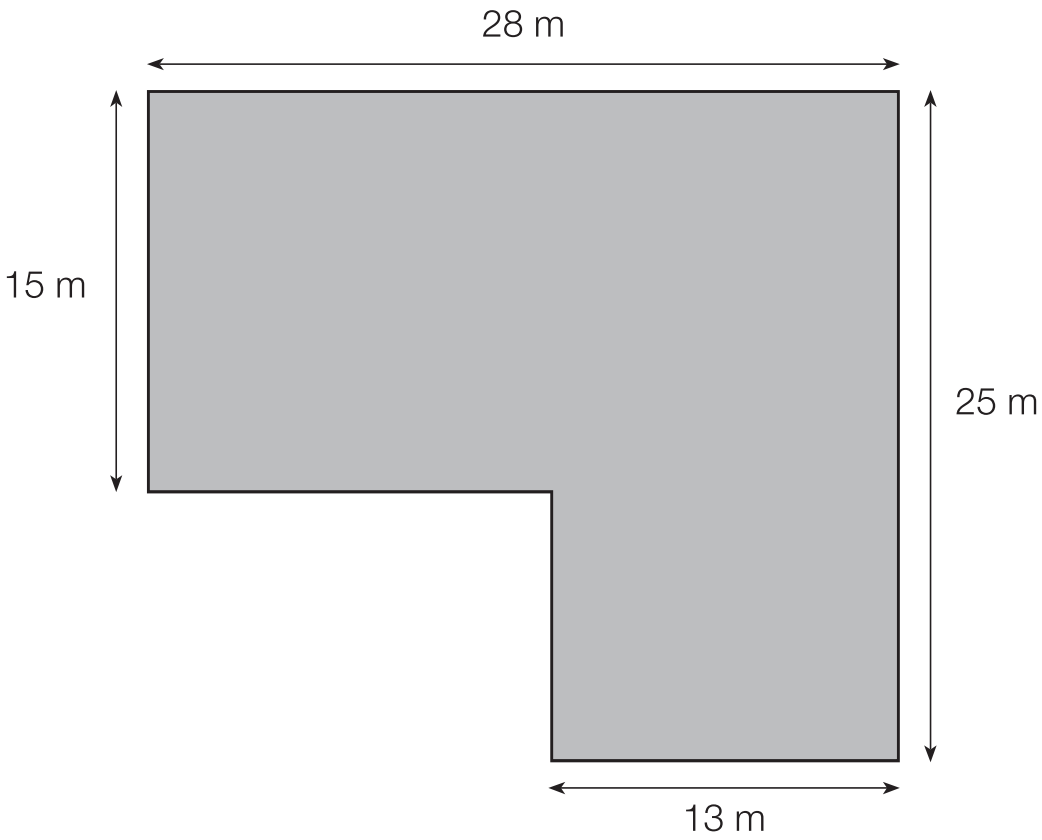
P	+	Q	=	R

Find values for P, Q and R.

P = ☐ Q = ☐ R = ☐

2 marks

14 The diagram shows a field.



5 sheep need 350 m^2 of field.

Is the field big enough for 10 sheep?

Yes **No**

You must show all your working out.

3 marks

15 Jenny has a bottle of juice.

Each day, Jenny uses 30 ml of juice.

After 3 days, Jenny has $\frac{4}{5}$ of the juice left.

How much juice was in the bottle to begin with?

Show your method

ml

2 marks