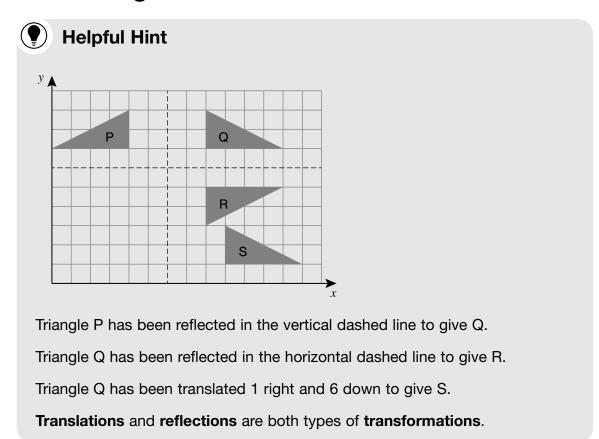
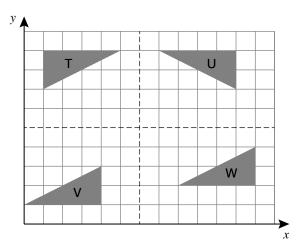
Geometry: transformations and properties of rectangles



A Use this diagram to answer questions 1 and 2.



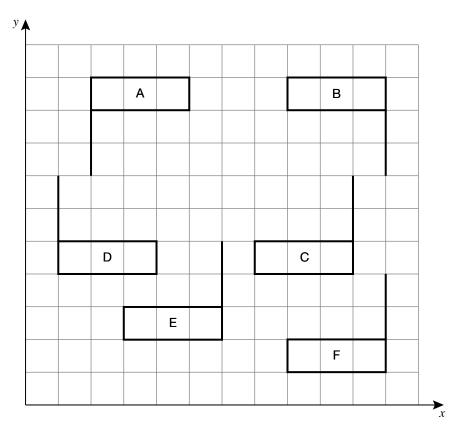
1 Describe the **transformation** to get from T to U.

[1]

2 Describe the transformation to get from V to W.

[1]

Use this diagram to answer questions 3 to 6.



3 Which shapes are a reflection of B?

	[1]

4 Which other two shapes are **reflections** of each other?

	[1]

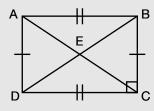
5 Describe the **transformation** to get from F to E.

Describe the transformation to get from F to E.	

6 Describe the **transformation** to get from C to F.



Helpful Hint



A rectangle has four equal angles because each corner is a **right angle**.

It has two pairs of equal sides as marked above:

AB = DC

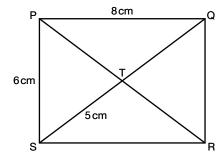
AD = BC

The diagonals are also equal and cut each other in half:

AC = BD

AE = CE = BE = DE

B Use this diagram to answer questions 1 to 4. Diagram not drawn to scale.



1 How long is SR?

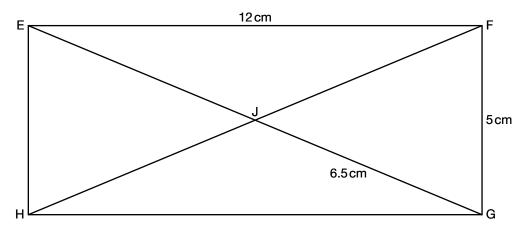
\sim	HOW	1	:_	Δ D0

2 How long is QR?

3 How long is QT?

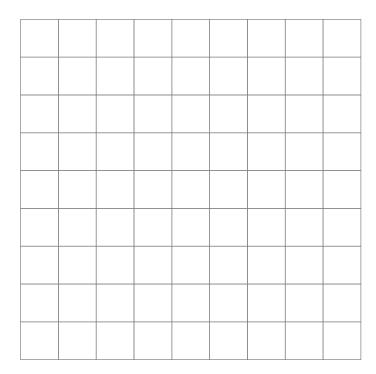
4 How long is PR?

Use this diagram to answer questions 5 to 8.



- 5 How long is HG? _____ cm [1]
- 6 How long is EH? ______ cm [1]
- 7 How long is EJ? ______ cm
- 8 How long is FH? ______ cm [1]
- 9 Draw a rectangle on the grid with length 7 cm and width 4 cm.

 Correctly mark the angle at one of the corners and the sides that are equal length.



10 How long is the diagonal to the nearest centimetre?

______C

cm

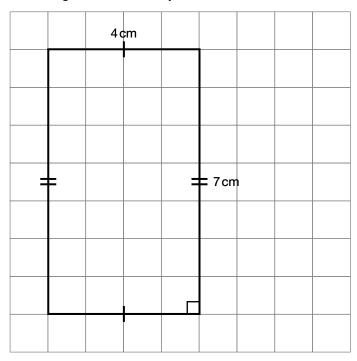
Unit 4



- 1 reflection in the vertical dashed line
- 2 translation 8 right and 1 up
- 3 A and F
- 4 C and D
- 5 translation 5 left and 1 up
- 6 translation 1 right and 3 down

B

- **1** 8cm
- **2** 6cm
- **3** 5cm
- **4** 10 cm
- **5** 12 cm
- **6** 5cm
- **7** 6.5 cm
- 8 13cm
- 9 rectangle drawn accurately



10 8cm