

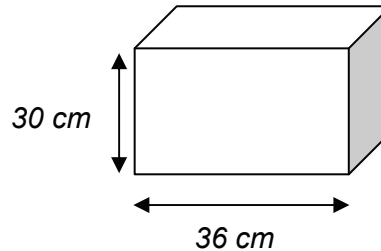
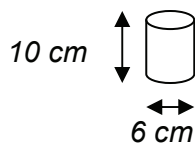


Progress check: Entry 3 numeracy

2D and 3D shapes

Short task

1 Lucy is working in a small gift shop. She is packing tins of sweets into boxes.



- a The bottom layer of the box holds 18 small tins.
How many layers of tins will fit into the box?

Show your working here:

- b How many tins altogether will fit into the whole box?

Show your working here:

- c The tins of sweets come in two sizes: large and small.

The large tins of sweets fit into the box with:

- eight tins in each layer
- two layers of tins.

How many less large tins fit into the box than small tins?

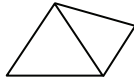
Show your working here:

2 Lucy also has to pack chocolate bars of different shapes into large boxes.

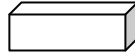


Circle the bar you think will be easiest to pack:

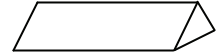
Bar 1



Bar 2



Bar 3



Give your reasons here:

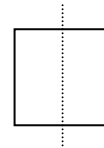
3 The shop sells a range of novelty cards in different shapes.

These diagrams show how two cards look when they are closed and open.

Card 1

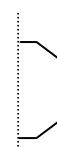


Closed

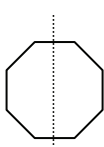


Open

Card 2



Closed



Open

Draw what this card will look like when it is open.

Card 3



Closed

Draw the open card here:

Card 3



Open

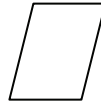
4 The shop also sells novelty badges in different shapes.

a Circle the badges that have a right angle in their shape.

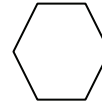
Badge A



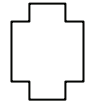
Badge B



Badge C



Badge D



b Badge E is triangular in shape. The triangle has one right angle in it.

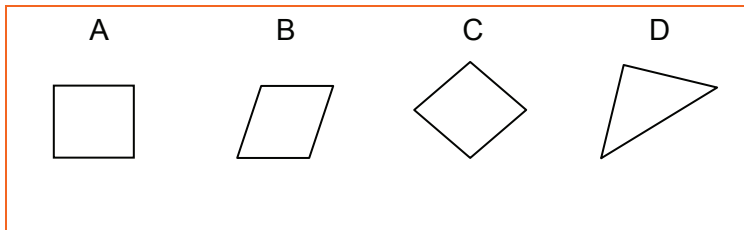
Draw the shape here:

Badge E



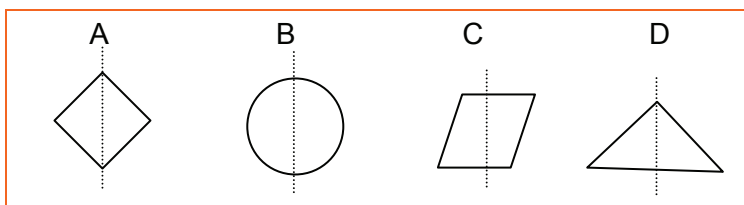
Mini-test: 2D and 3D shapes (Entry 3)

1 Which of these shapes does **not** have a right angle in it?



- a A b B c C d D

2 Which of these shapes have a line of symmetry down their centre?



- a A, B and C b A, B and D
c B and D d A, B C and D

3 Which of these shapes has four sides of equal length?

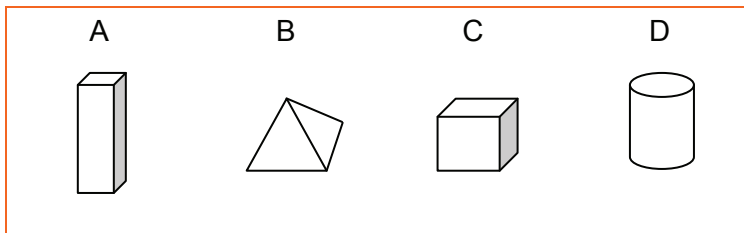
- a triangle b rectangle c hexagon d square

4 How many lines of symmetry does this shape have?



- a 0 b 2 c 5 d 10

5 Which of these shapes does not have any square sides?



- a A b B c C d D

6 Which 3D shape will come next in this pattern?

