TEST C *You will need a pencil, a ruler, a protractor and a set square.* **Year 6**

Mathematics Assessment:

GEOMETRY - Properties of shapes / Position and direction

Name..... Class..... Date.....

1 In the space below, draw a square with sides of **7 cm**. Use your ruler and set square (or protractor). Label the length of each side.

2 marks

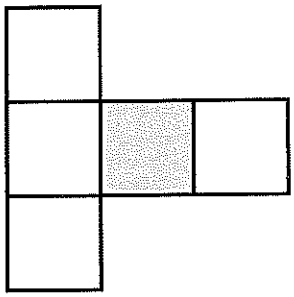
2 In the space below, draw an isosceles triangle, with a base of **9 cm** and an angle of **45°** at either side of the base.

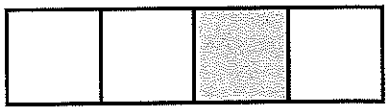
2 marks

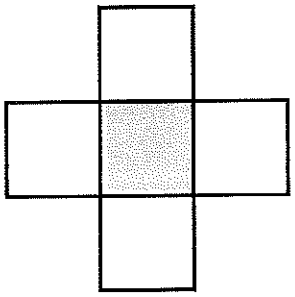
Page Total

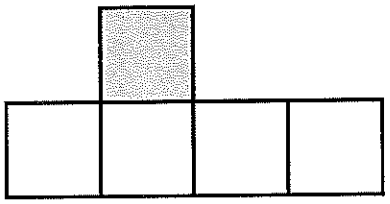
3 The shaded square shows the base of each shape.

Circle the net which will **not** make an open cube.

a 

b 

c 

d 

2 marks

4 Put the following quadrilaterals in the correct box in the table below. One has been done for you.

square **rectangle** **kite** **trapezium**

only 1 pair of opposite parallel sides	opposite sides equal	all sides equal	2 pairs of equal, adjacent sides
		square	

2 marks

Page Total

5 Match the sum of the interior angles to the shapes.
One has been done for you.

a pentagon

b quadrilateral

c triangle

d hexagon

180°

720°

540°

360°

2 marks

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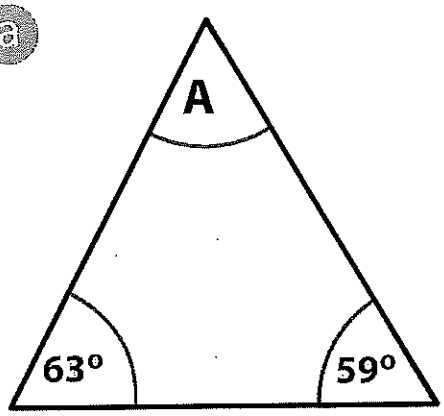
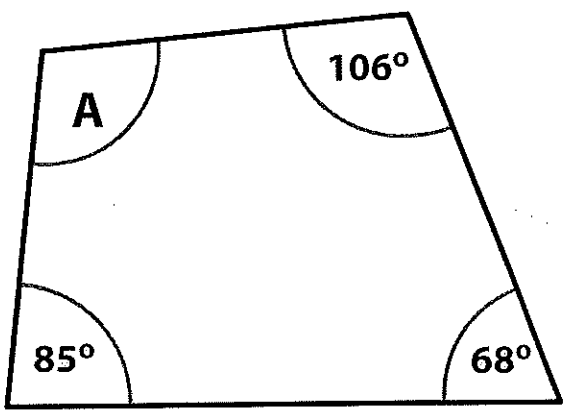
6 Find the size of the missing angle **A** in the shapes below.

a



b



A = ☐ °

A = ☐ °

2 marks

Page Total ☐

7 Name the parts of a circle.

(a) the distance from one side of the circle, through the centre, to the other side

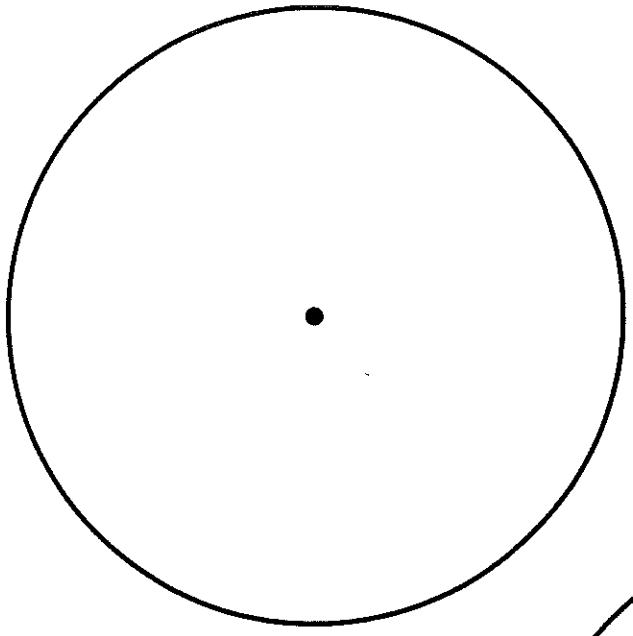
(b) the distance from the centre to the edge

(c) the distance around the edge of the circle

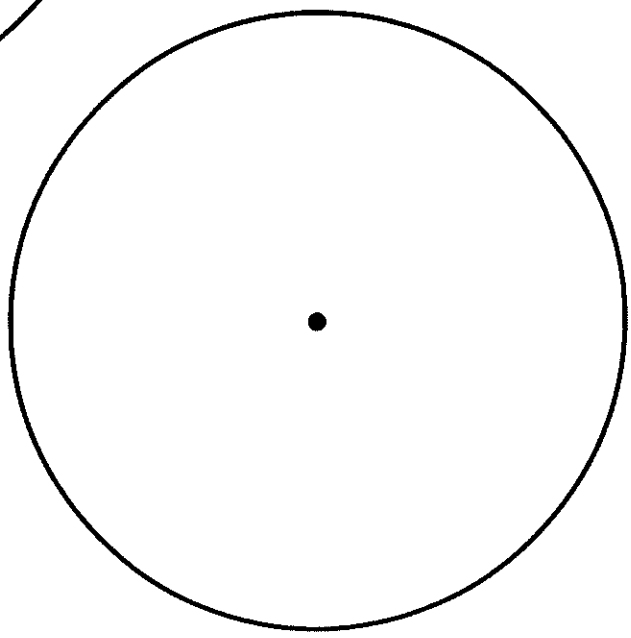
2 marks

8 Use your ruler to draw the **diameter** on circle (a) and the **radius** on circle (b).

(a)



(b)



2 marks

Page Total

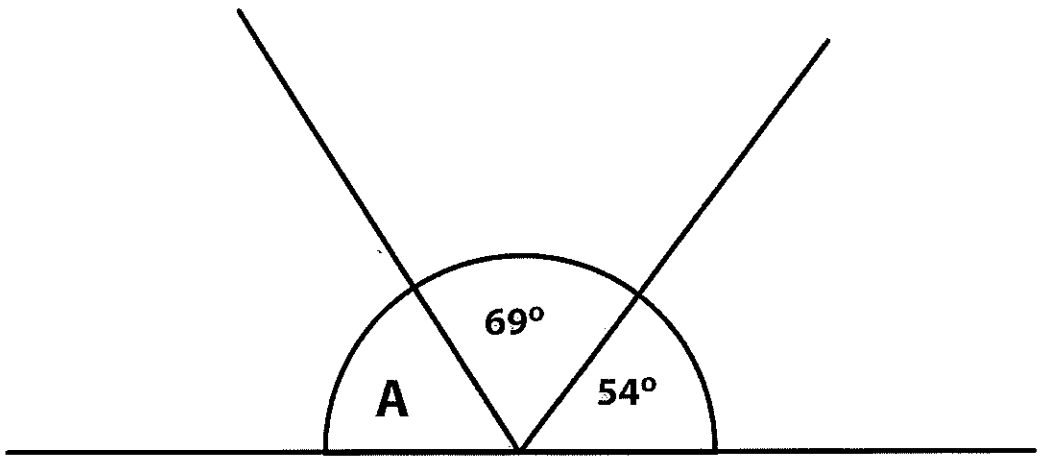
9 Look at this formula; **diameter = 2 x radius** (**d = 2 x r**). Use this formula to solve the following.

a) **d** = 2 x 19 cm **so** **d** = ☐ cm

b) 50 cm = 2 x **r** **so** **r** = ☐ cm

2 marks

10 Calculate the size of angle **A** in the diagram below.



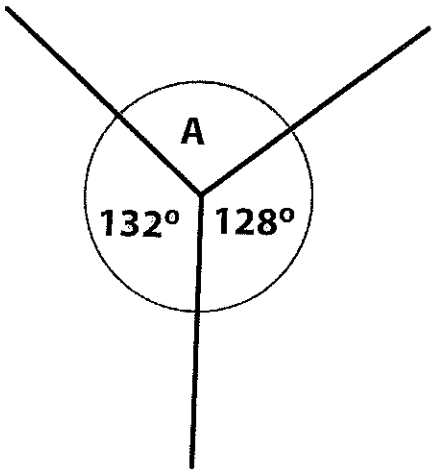
A = ☐ °

2 marks

Page Total ☐

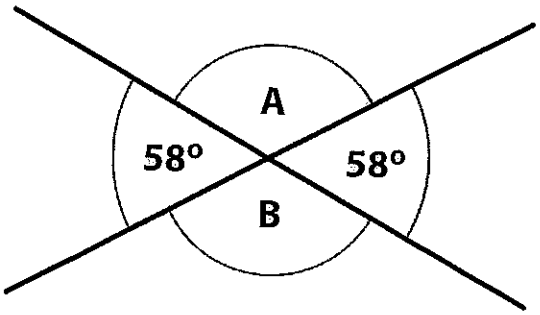
11 Look at the diagrams below. Calculate the size of the missing angles.

a



A = ☐ °

b

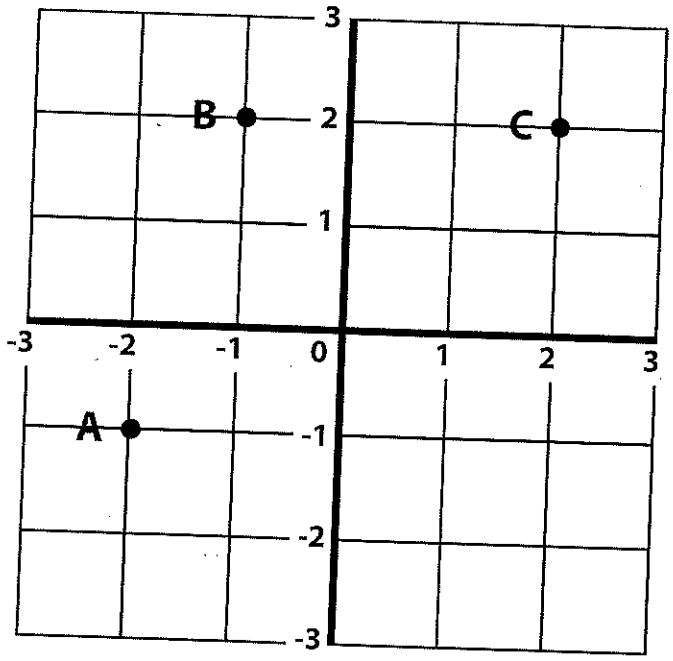


A = ☐ °

B = ☐ °

2 marks

12 Points **A**, **B**, **C** are **3** corners of a parallelogram.



What are the co-ordinates of the **4th** corner (**D**)? (☐ , ☐)

2 marks

Page Total ☐

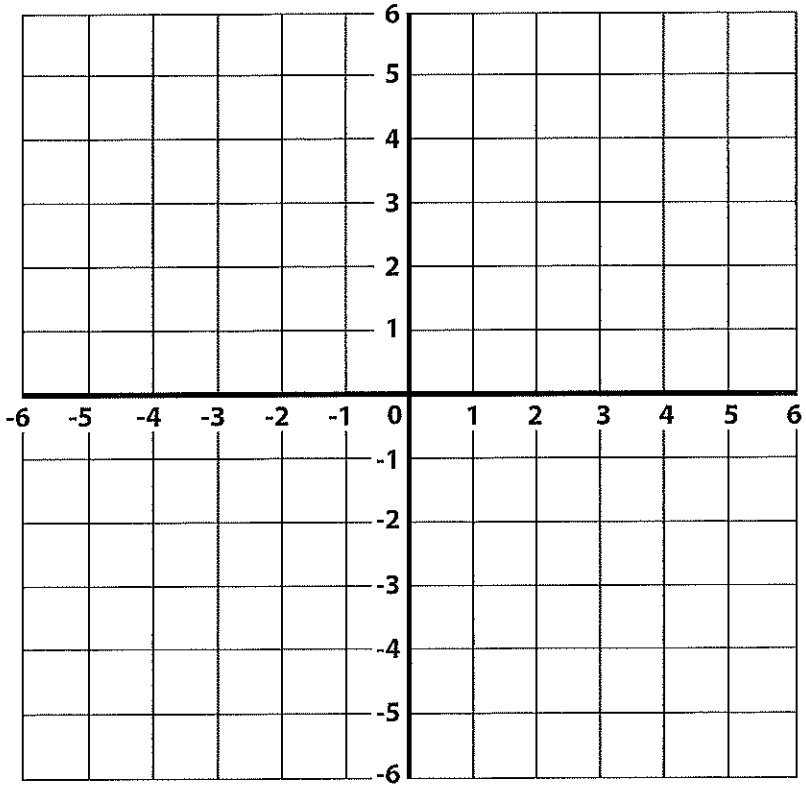
13 Plot the points below onto the full co-ordinate grid. Join the dots to make a rectangle.

(4,5)

(-4,5)

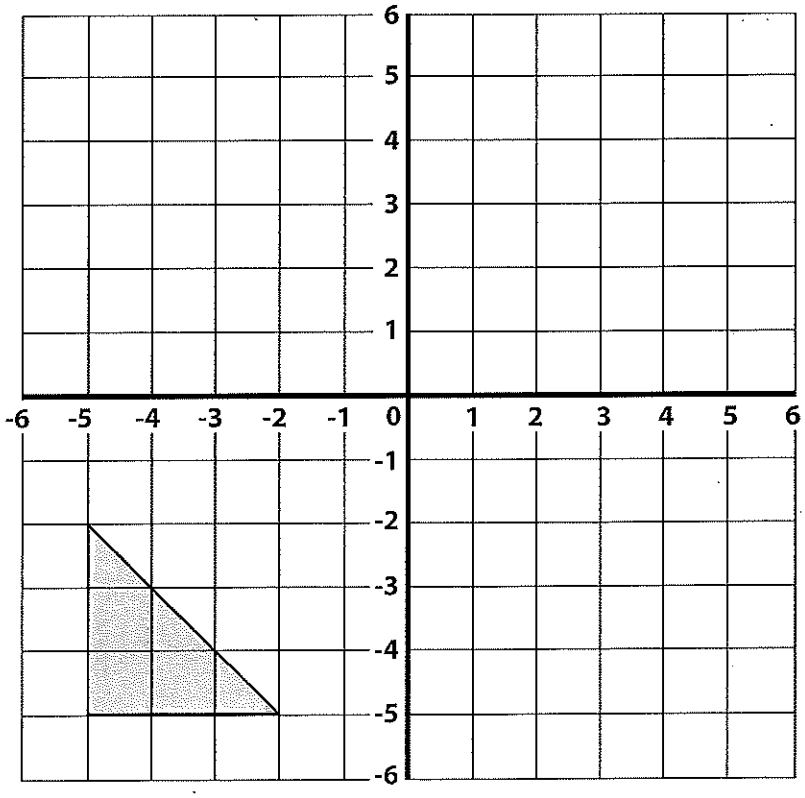
(-4,-5)

(4,-5)



2 marks

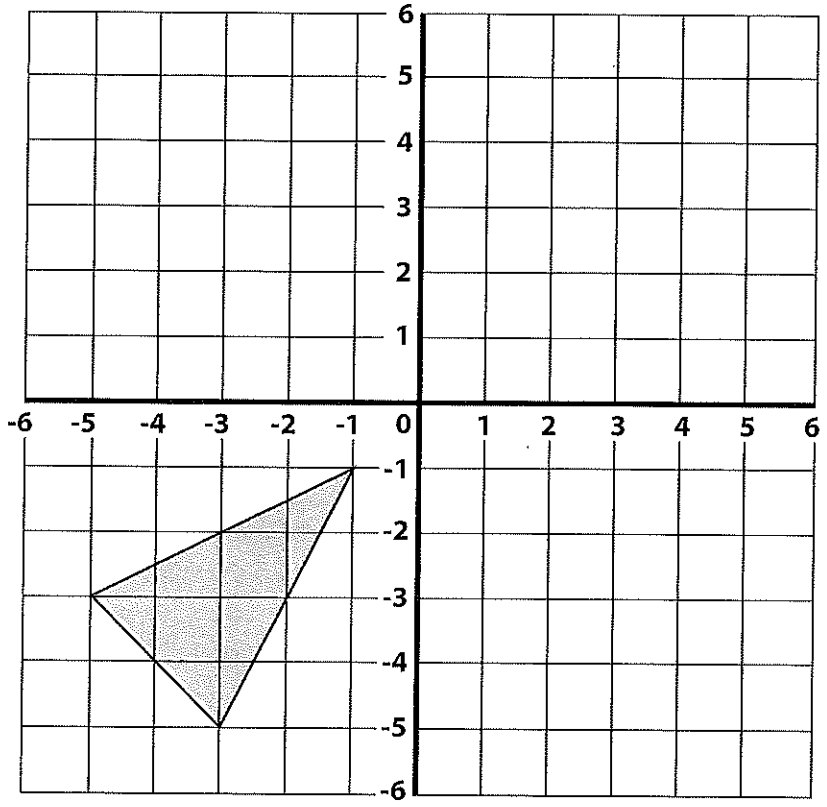
14 On the grid below, sketch the position of the triangle after it has been translated **6** units up and **7** units to the right.



2 marks

Page Total

15 Reflect the triangle into the first quadrant on the co-ordinate plane below.



2 marks

End of Test

Page Total

TEST TOTAL

30

PERCENTAGE SCORE

%