1. Calculate the area of this shape.

5 cm

9 cm

$22.5cm^2$
....
(2 marks)

2. Calculate the area of this shape.

6 cm

5 cm

4 cm

12 cm
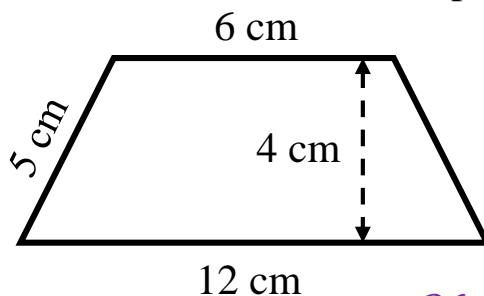
$36cm^2$
....
(2 marks)

3. Calculate the volume and surface area of the cube below.

3 cm

3 cm

3 cm

3 cm
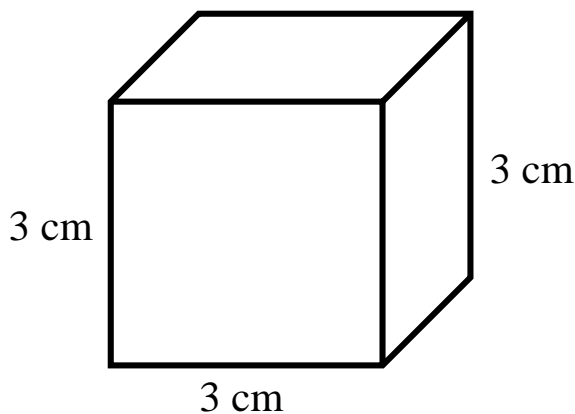
Volume = $27cm^3$ ....

Surface area = ...$54cm^2$...

(5 marks)

3. Calculate the area of this circle.
Leave your answer in terms of π.

12 cm
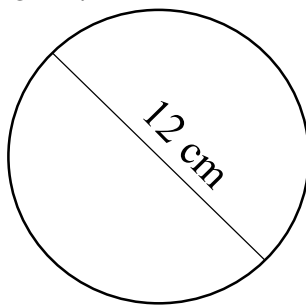
36π
....
(2 marks)

4. Is it possible to make a right angle triangle with sides of 4cm, 6cm and 10cm.

$$4^2 + 6^2 = 10^2$$

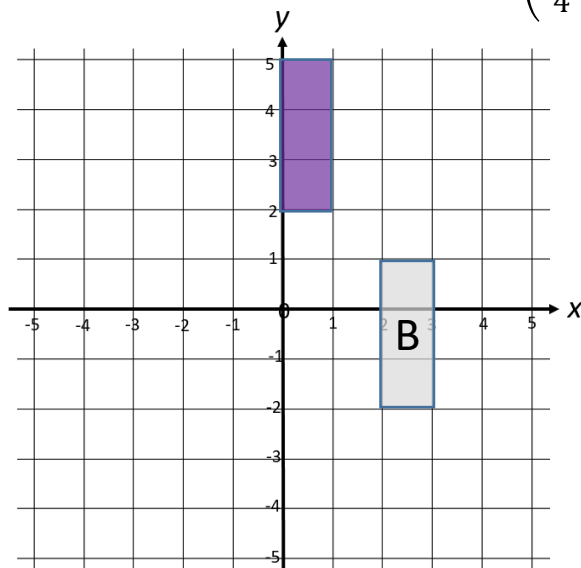$$16 + 36 \neq 100$$

No
....
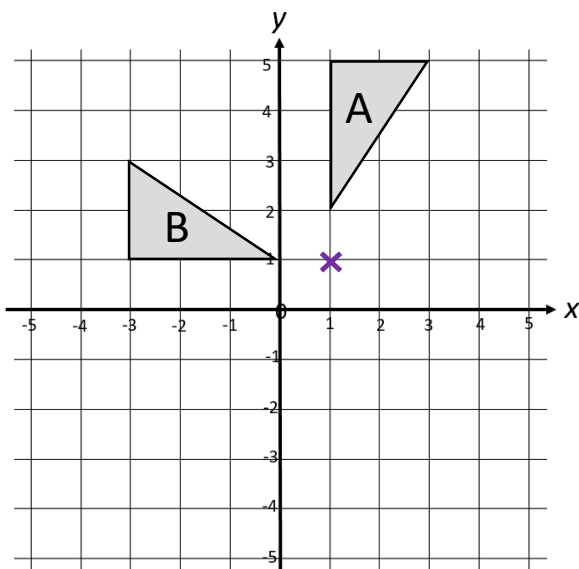(2 marks)

5. Reflect shape *A* in the line $y = 1$
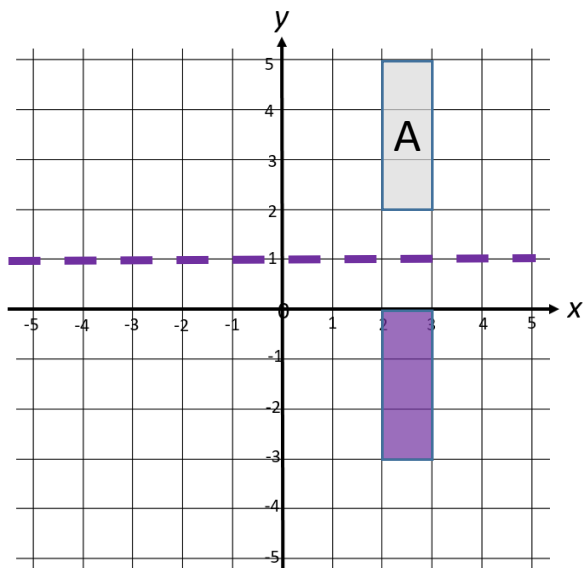
(2 marks)

6. Translate shape *B* by the vector $\begin{pmatrix} -2 \\ 4 \end{pmatrix}$

(2 marks)

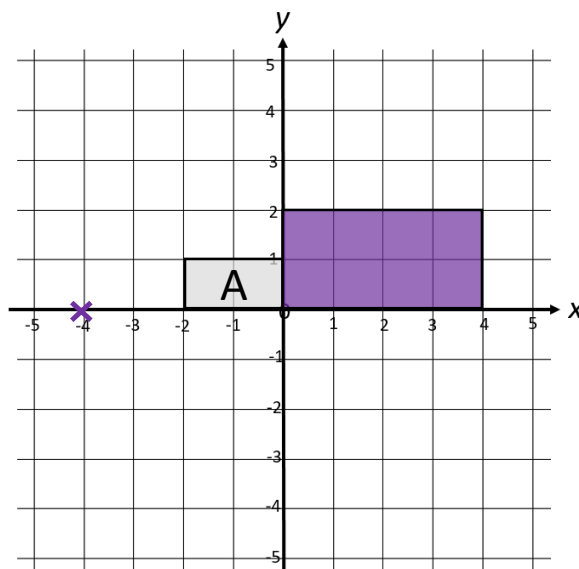7. Describe the single transformation from shape A to B.

Rotation

90° Anti clockwise

Centre (1,1)

(2 marks)

8. Enlarge shape *A* by scale factor 2 from the center (-4 , 0)

(2 marks)

Score =