1. Calculate the area of this shape.

5 cm

7 cm

5 cm

13 cm

$75cm^2$
....
(2 marks)

2. Calculate the area of this shape.

7 cm

5 cm

3.5 cm

11 cm
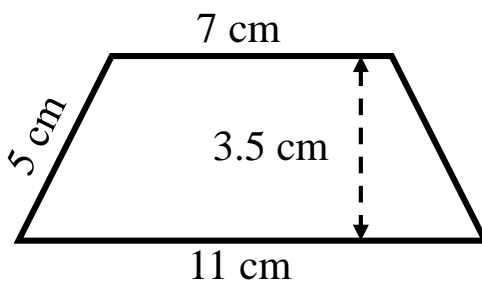
$27cm^2$
....
(2 marks)

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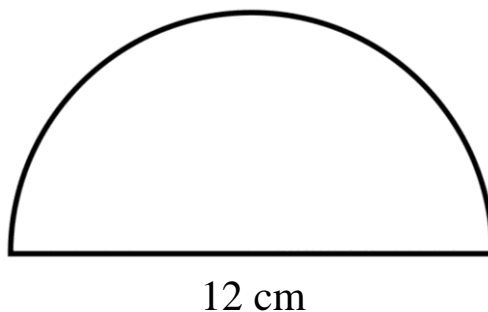
10 cm

6 cm

16 cm

8 cm
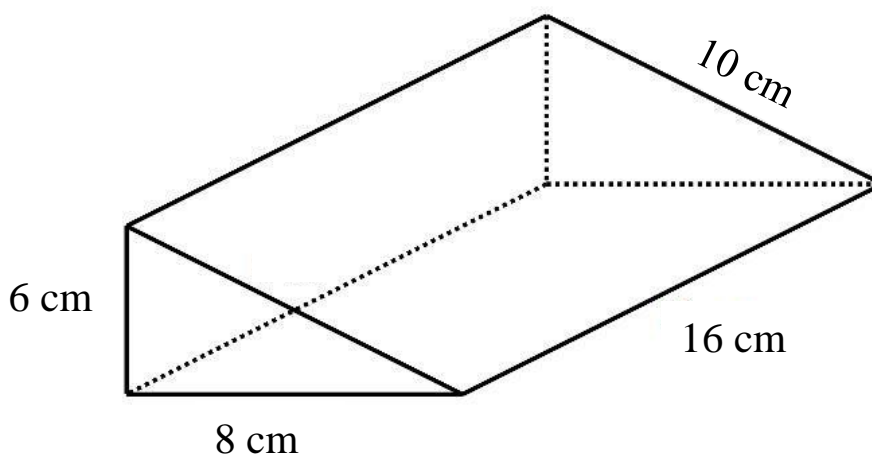
Volume = ...$384cm^3$

Surface area = ...$432cm^2$.
(5 marks)

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

12 cm

$\dfrac{36\pi}{2}$

$= 18\pi$
....
(2 marks)

4. Two sides of a right angle triangle are 6cm and 11cm.
   There are two possible answers for the third side.
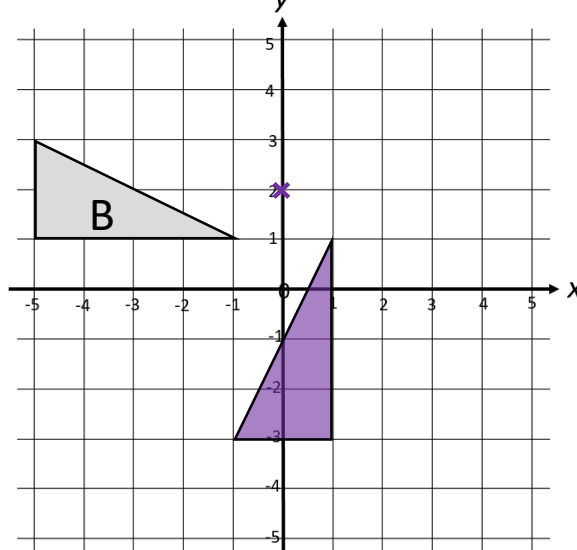   Round your answers to 1 decimal place.

$12.5cm$ or $9.2cm$
....
(2 marks)

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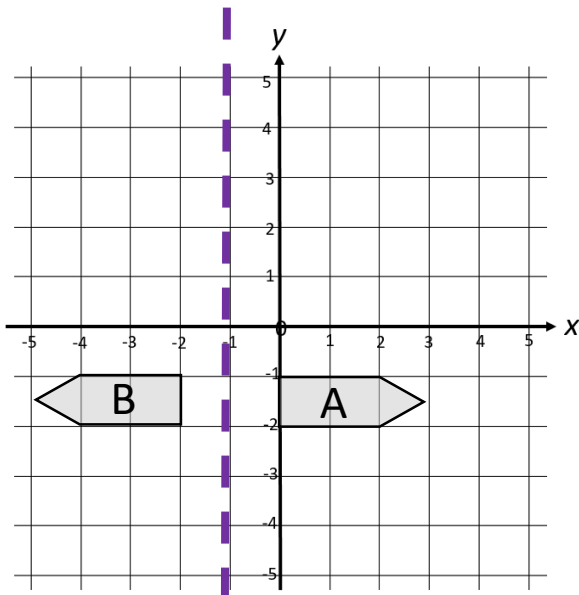
A
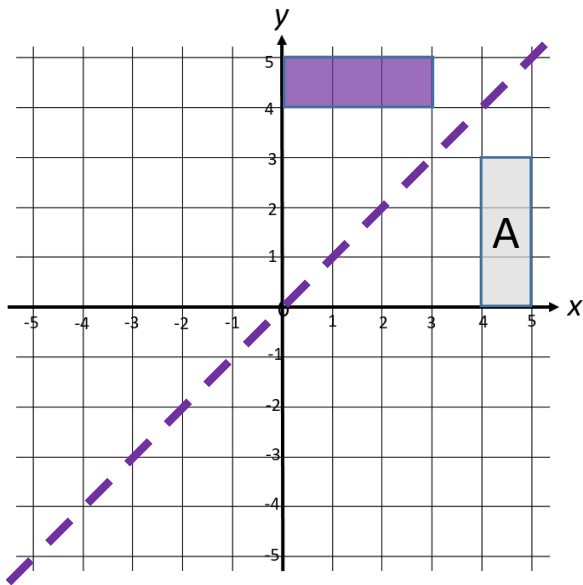
(2 marks)

6. Rotate shape *B* by 90° ACW about the center (0 , 2)

B

(2 marks)

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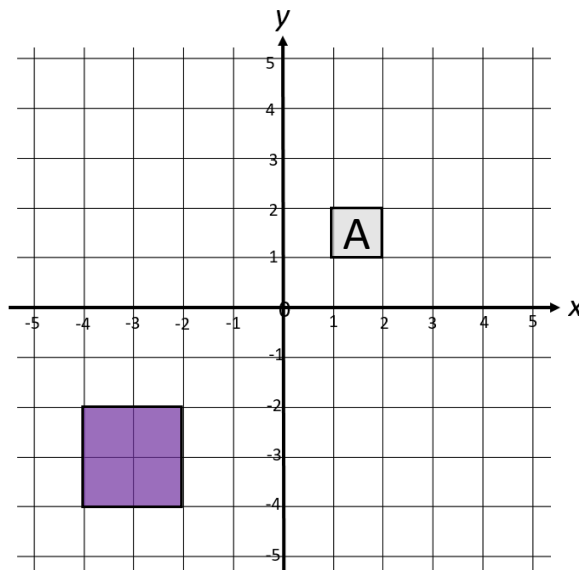
B   A

Reflection

in the line x = −1

(2 marks)

8. Enlarge shape *A* by scale factor -2 from the origin.

A

(2 marks)

Score =