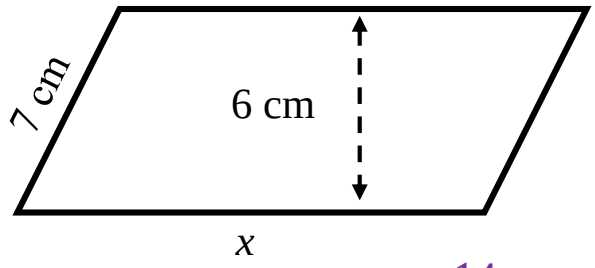
Higher Homework 30 : Shape

1. Calculate x.

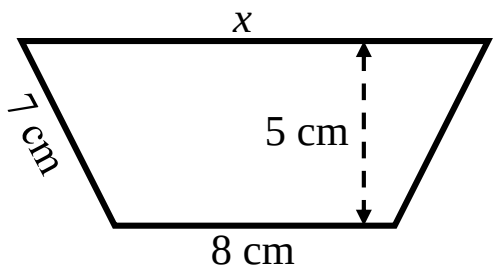


Area = 84 cm²

$14cm$

(2 marks)

2. Calculate x.



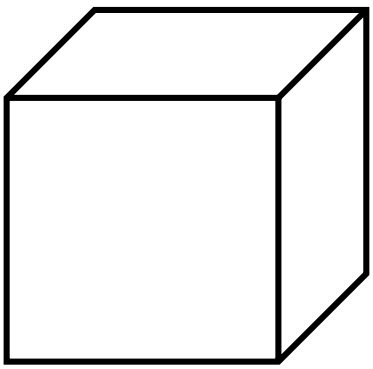
Area = 50 cm²

$12cm$

(2 marks)

3. Calculate the surface area of the cube below.

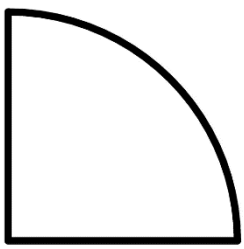
$Volume = 512cm^3$



Surface area = $384cm^2$

(3 marks)

3. Calculate the circumference of this quarter-circle.
Leave your answer in terms of π.



$\frac{12\pi}{4} + 6 + 6$

$= 3\pi + 12$

(2 marks)

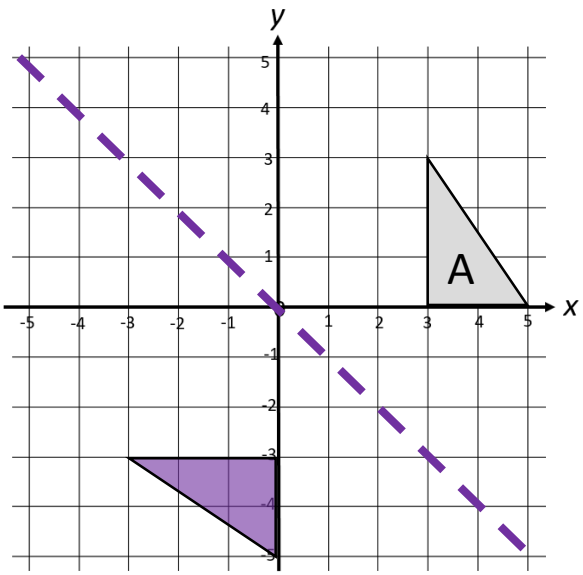
4. Two sides of a right angle triangle are 9cm and 16cm.
There are two possible answers for the third side.
Round your answers to 1 decimal place.

$18.4cm \text{ or } 13.2cm$

(2 marks)

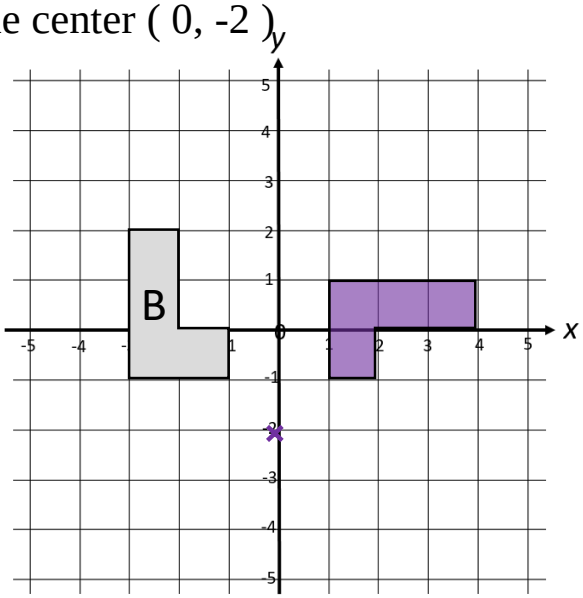
Higher Homework 30 : Shape

5. Reflect shape *A* in the line y = - *x*



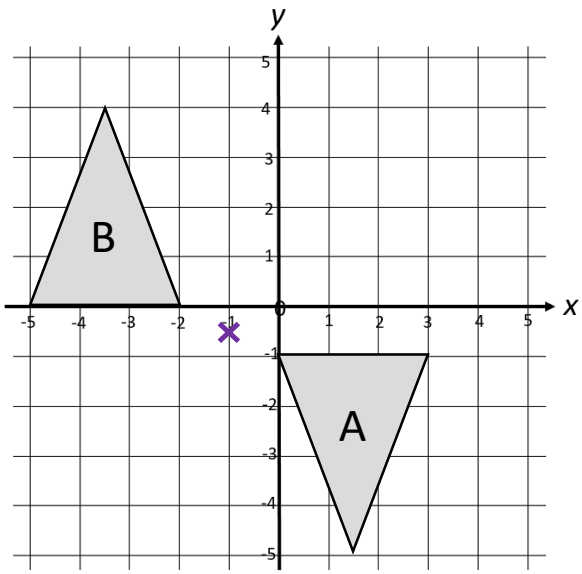
(2 marks)

6. Rotate shape *B* by 270° ACW about the center (0, -2)



(2 marks)

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



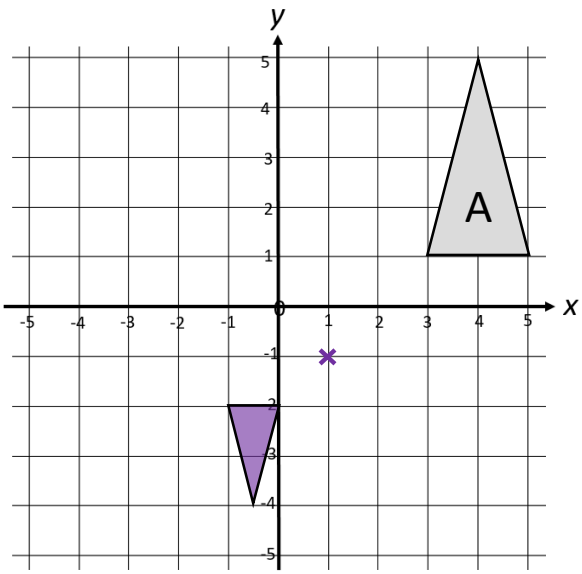
Rotation

180°

Centre $(-1, -0.5)$

(2 marks)

8. Enlarge shape *A* by scale factor $-\frac{1}{2}$ from the center (1 , -1)



(2 marks)

Score =