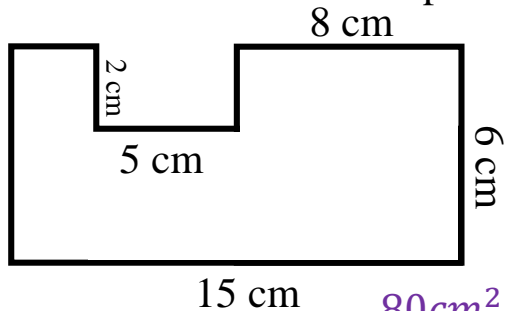


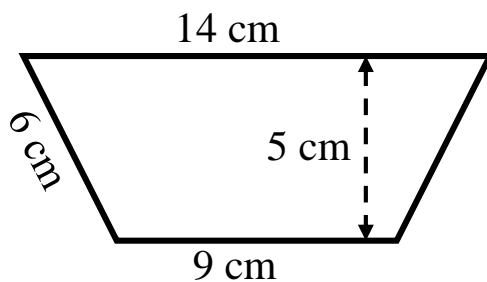
1. Calculate the area of this shape.



.....  
 $80\text{cm}^2$

(2 marks)

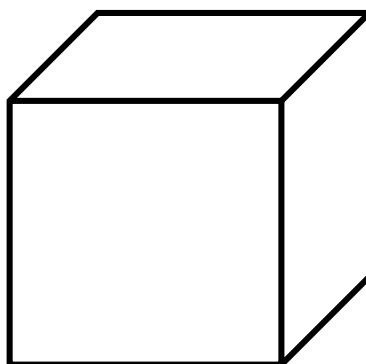
2. Calculate the area of this shape.



.....  
 $57.5\text{cm}^2$

(2 marks)

3. Calculate the surface area of the cube below.



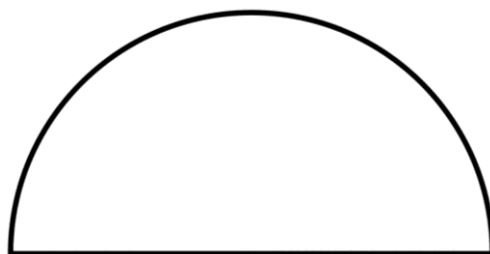
$Volume = 125\text{cm}^3$

$Surface\ area = \dots 150\text{cm}^2$

(3 marks)

3. Calculate the circumference of this semi-circle.

Leave your answer in terms of  $\pi$ .



10 cm

$= \frac{10\pi}{2} + 10$

$= 5\pi + 10$

.....  
 (2 marks)

4. Two sides of a right angle triangle are 12cm and 7cm.

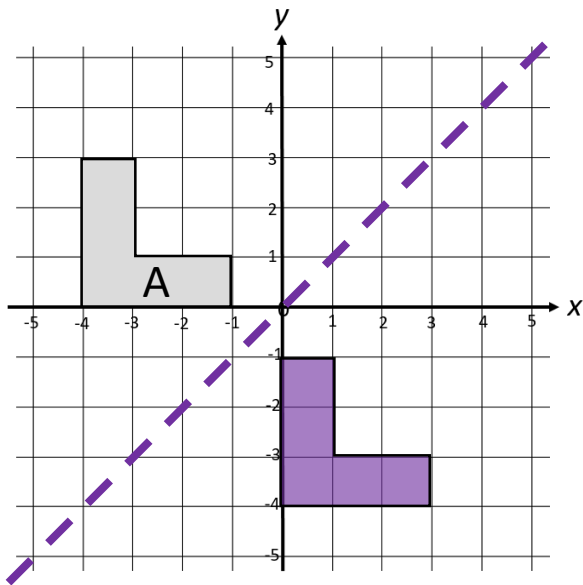
There are two possible answers for the third side.

Round your answers to 1 decimal place.

$13.9\text{cm or }9.7\text{cm}$

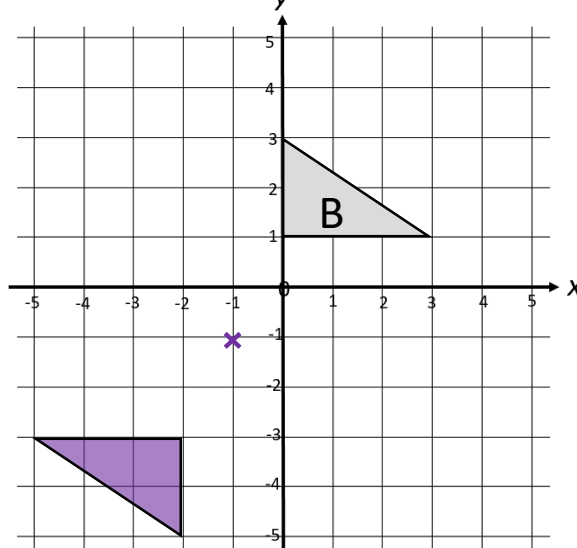
.....  
 (2 marks)

5. Reflect shape A in the line  $y = x$



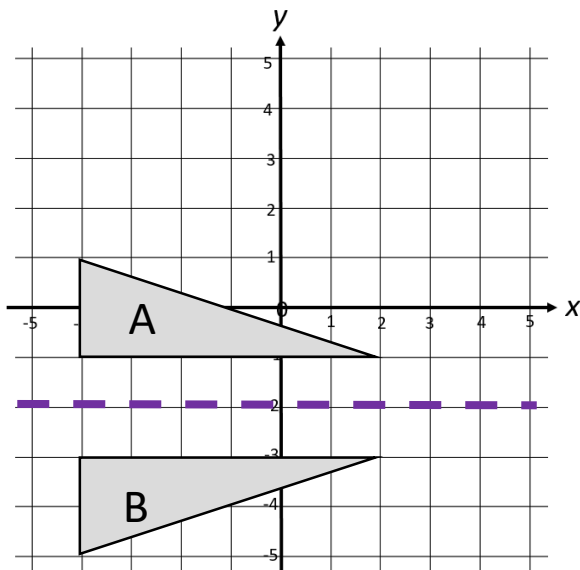
(2 marks)

6. Rotate shape B by  $180^\circ$  about the center  $(-1, -1)$



(2 marks)

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

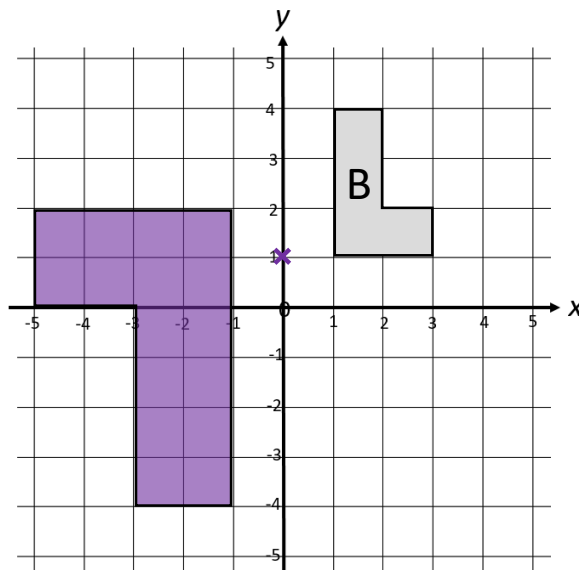


*Reflection*

*in the line  $y = -2$*

(2 marks)

8. Enlarge shape A by scale factor  $-2$  from the center  $(0, 1)$



(2 marks)

Score =