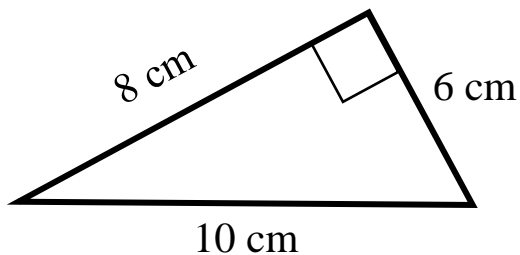


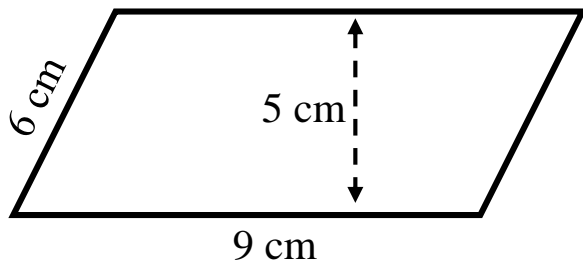
1. Calculate the area of this shape.



24cm^2

.....
(2 marks)

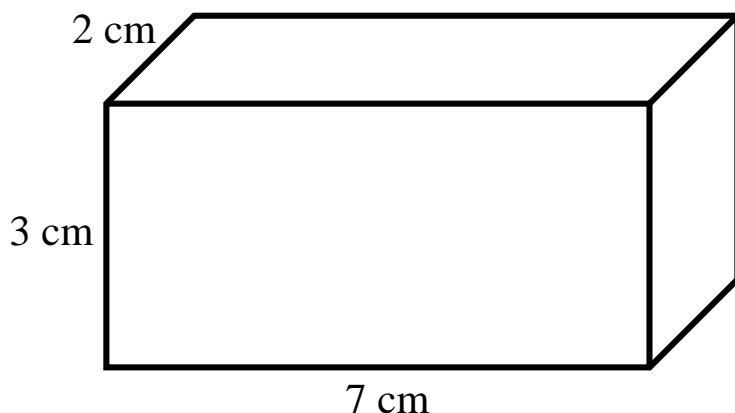
2. Calculate the area of this shape.



45cm^2

.....
(2 marks)

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

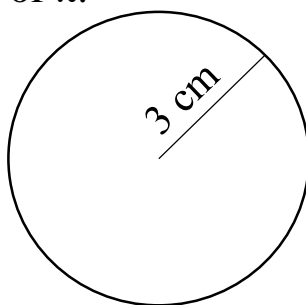


Volume = 42cm^3

Surface area = 82cm^2
(5 marks)

3. Calculate the circumference of this circle.

Leave your answer in terms of π .



6π
.....
(2 marks)

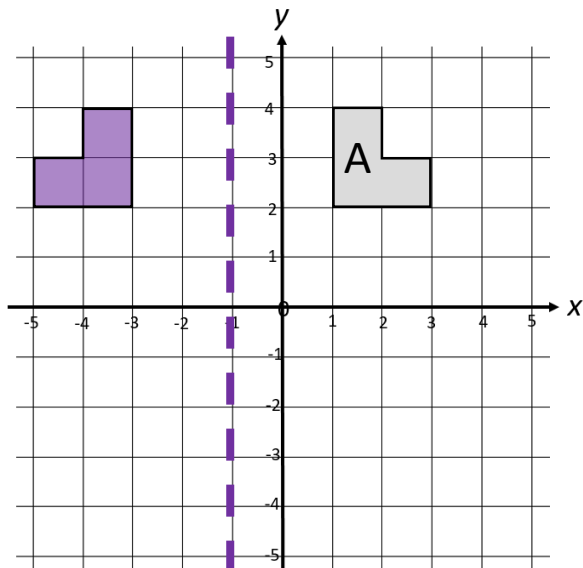
4. Is it possible to make a right angle triangle with sides of 8cm, 6cm and 10cm.

$6^2 + 8^2 = 10^2$

$36 + 64 = 100$

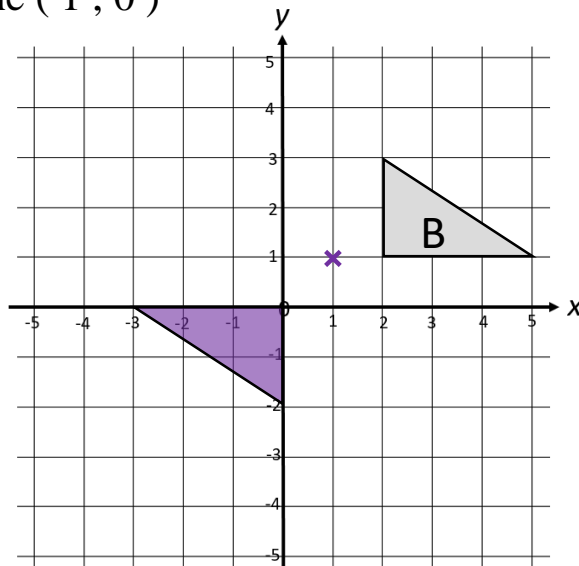
Yes
.....
(2 marks)

5. Reflect shape A in the line $x = -1$



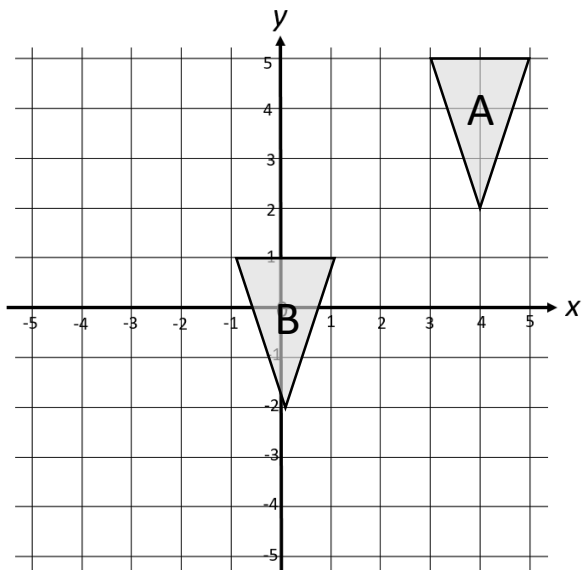
(2 marks)

6. Rotate shape B by 180° about the $(1, 0)$



(2 marks)

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

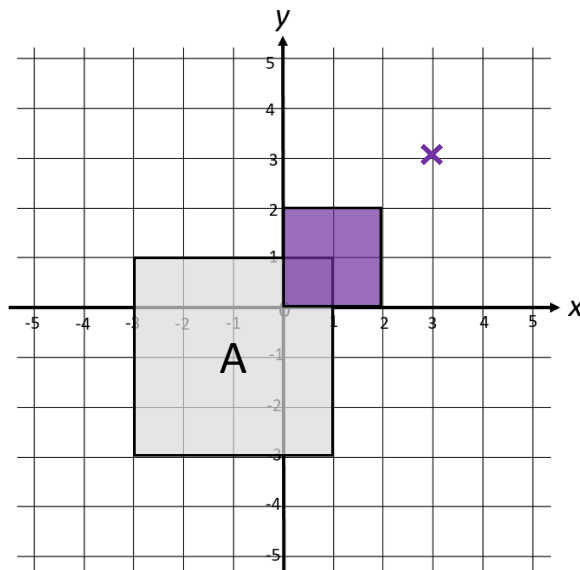


Translation

Vector $\begin{pmatrix} -4 \\ -4 \end{pmatrix}$

(2 marks)

8. Enlarge shape A by scale factor $\frac{1}{2}$ from the center $(3, 3)$



(2 marks)

Score =