1. Name this polygon.

*Pentagon*
..................

(1 mark)

2.
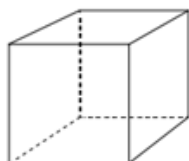
Name……*Cube*……     Name…*Square based pyramid*.     Name…*Cylinder*.
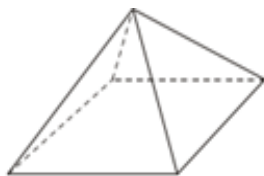
Faces……6………     Faces……5……     Faces……3……

Vertices……8……     Vertices……6……     Vertices……0……

Edges……12……     Edges……8……     Edges……2……

(9 marks)

3. Calculate the perimeter of this shape.

*16cm*
..................

(1 mark)

4.

| | A | | B | | C |
|---|---|---|---|---|---|

D

E
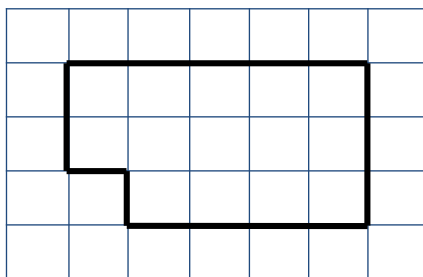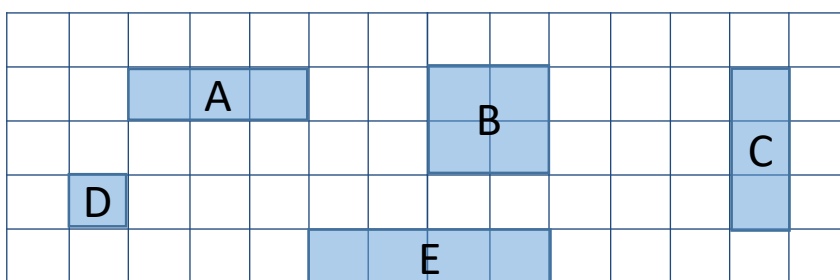
(i)    Which two shapes are congruent.     ……*A*…and…*C*…

(ii)    Which two shapes are similar.     …*B*……and…*D*……
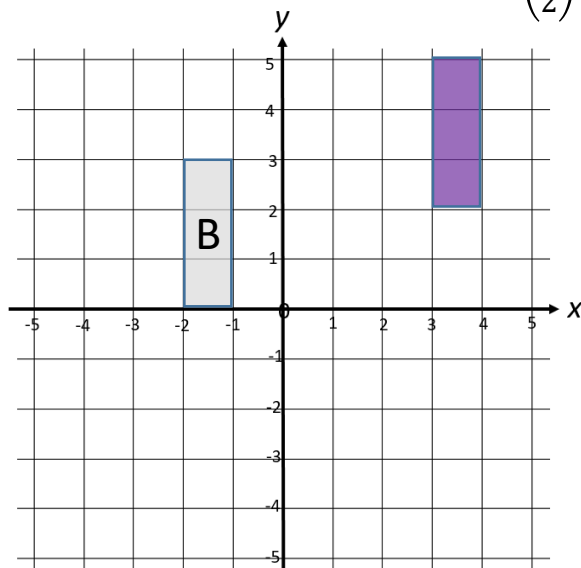
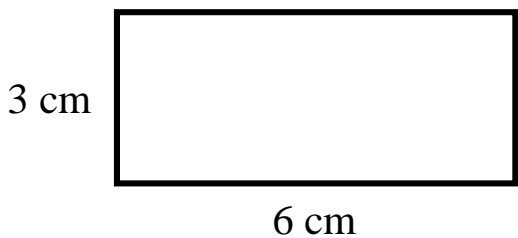(2 marks)

5. Reflect shape *A* in the line *x* axis
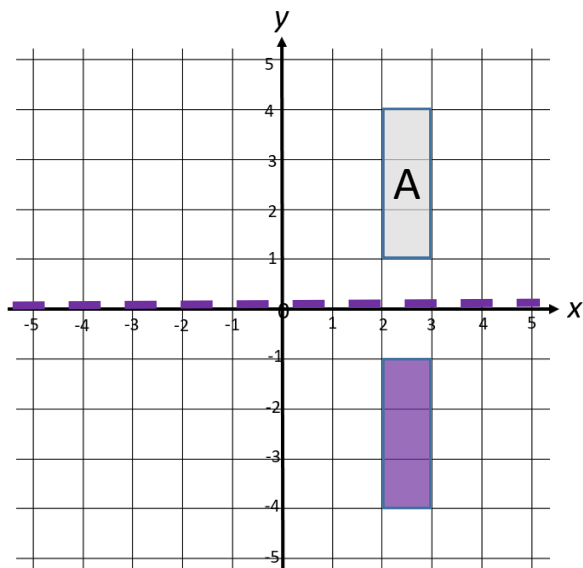


(2 marks)

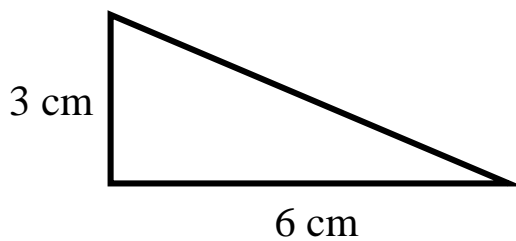6. Translate shape *B* by the vector $\begin{pmatrix} 5 \\ 2 \end{pmatrix}$



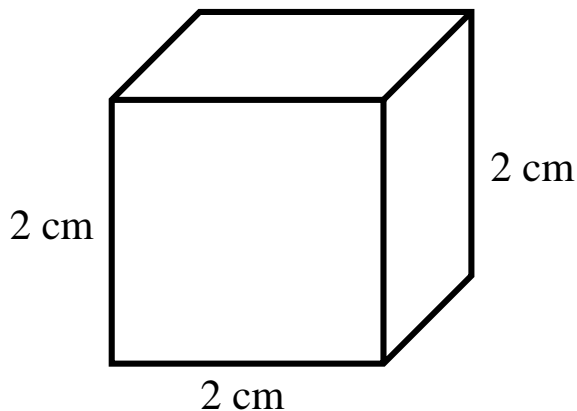(2 marks)

7. Calculate the area of this shape.

3 cm

6 cm

$18cm^2$

(2 marks)

8. Calculate the area of this shape.

3 cm

6 cm

$9cm^2$

(2 marks)

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

2 cm

2 cm

2 cm

2 cm

*Volume =* $8cm^3$

*Surface area =* $24cm^2$

(5 marks)

Score =