



A map has a scale 1:4000

The distance between two points of interest is measured to be 8cm on the map.

What is the actual distance between the two points of interest?

Give your answer in metres.

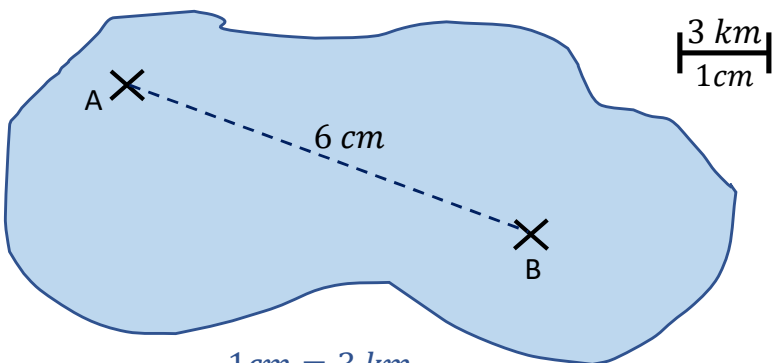
$$8 \times 4000 = 32000$$

$$8\text{cm} : 32,000 \text{ cm}$$

$$32,000\text{cm} = 320 \text{ m}$$

The distance between the two points of interest is **320 metres**

Use the scale to find the distance from A to B

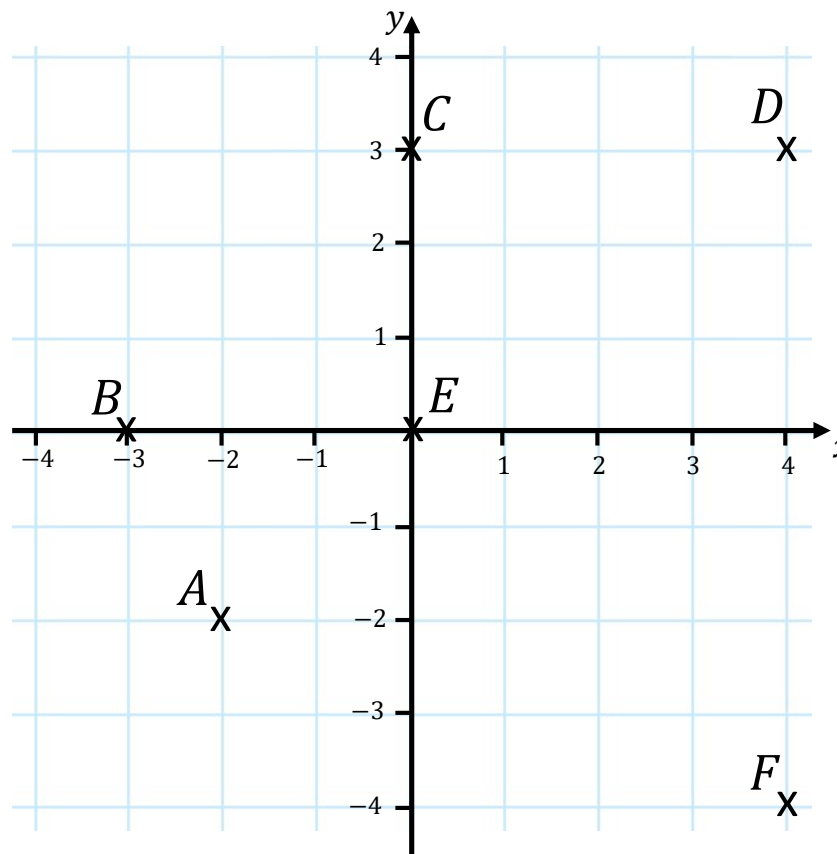


$$1\text{cm} = 3 \text{ km}$$

$$6\text{cm} = 18 \text{ km}$$

Distance from A to B is **18 km**

Find the Coordinates *A, B, C, D, E* and *F*.



$$A(-2, -2)$$

$$B(-3, 0)$$

$$C(0, 3)$$

$$D(4, 3)$$

$$E(0, 0)$$

$$F(4, -4)$$

Find the coordinates of the midpoint of the points *A* and *E*.

$$(-1, -1)$$