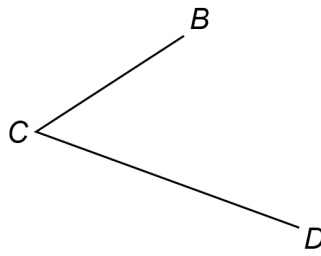


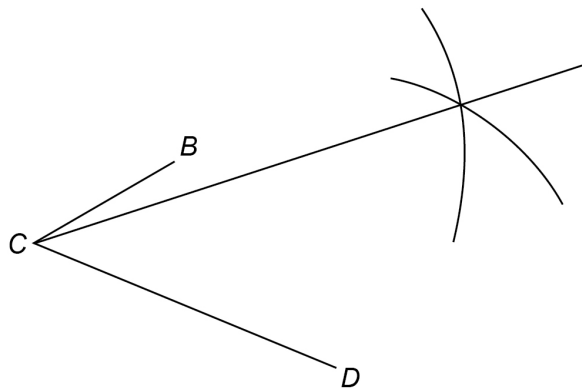
21 (a) Joe wants to bisect angle  $BCD$ .



Here is his method.

Use a pair of compasses to draw arcs of the same radius from  $B$  and  $D$ .

Draw a straight line from  $C$  through the intersection of the arcs.



Write down the error in his method.

[1 mark]

---

---

---



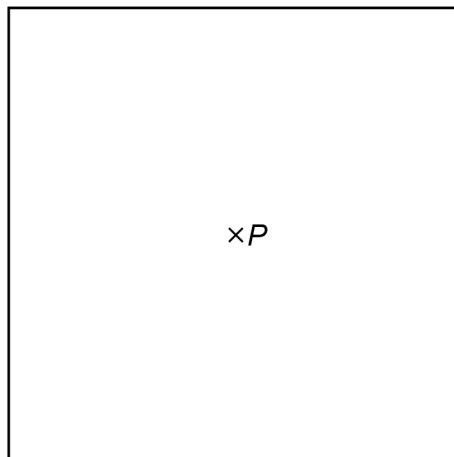
**21 (b)** Kay wants to show all the points 3 km from point  $P$ .

Scale: 1 cm represents 1 km

$\times P$

Here is her answer.

Scale: 1 cm represents 1 km



What is wrong with her answer?

[1 mark]

---

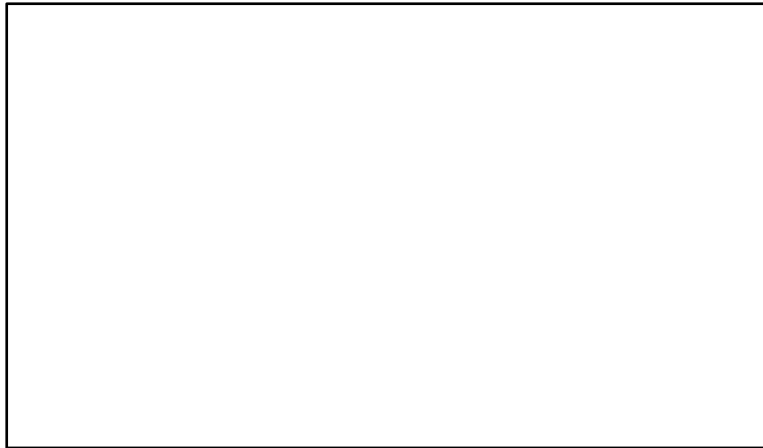
---

---

**Question 21 continues on the next page**



21 (c) Here is a rectangle.



Using a pair of compasses and a straight edge, construct **one** line of symmetry.  
Show clearly your construction arcs.

**[2 marks]**

