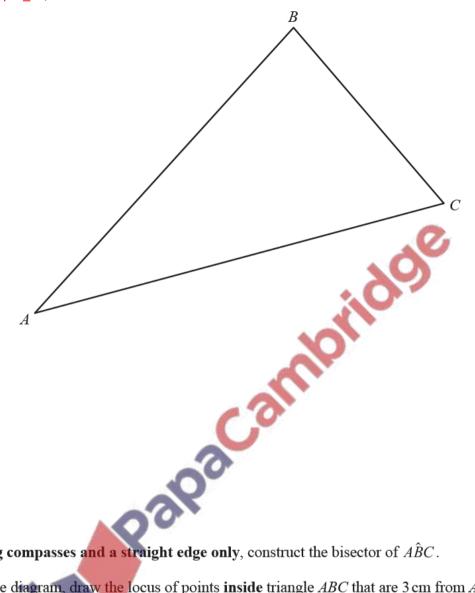
## <u>Loci – 2020 O Level Math D</u>

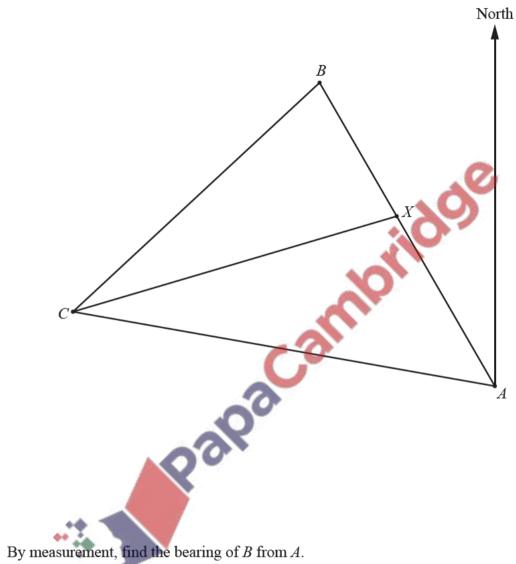
1. Nov/2020/Paper\_11/No.15



- (a) Using compasses and a straight edge only, construct the bisector of  $\hat{ABC}$ . [2]
- (b) On the diagram, draw the locus of points inside triangle ABC that are 3 cm from AC. [1]

## Nov/2020/Paper\_12/No.17

The diagram shows the positions of three boats A, B and C.



- (a) By measurement, find the bearing of B from A.

- **(b)** CX is the bisector of angle ACB.
  - Using compasses and a straight edge only, construct the locus of points inside triangle ABC that are equidistant from B and C. [2]
  - A ship is (ii)
    - nearer to AC than to BCand
    - nearer to C than to B.

Shade the region in which this ship is situated.

[1]

3. Nov/2020/Paper_21	/No.3
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- (a) In triangle PQR, PR = 7.5 cm and QR = 6 cm.
  - (i) Using a ruler and compasses only, construct triangle PQR. Line PQ has been drawn for you.



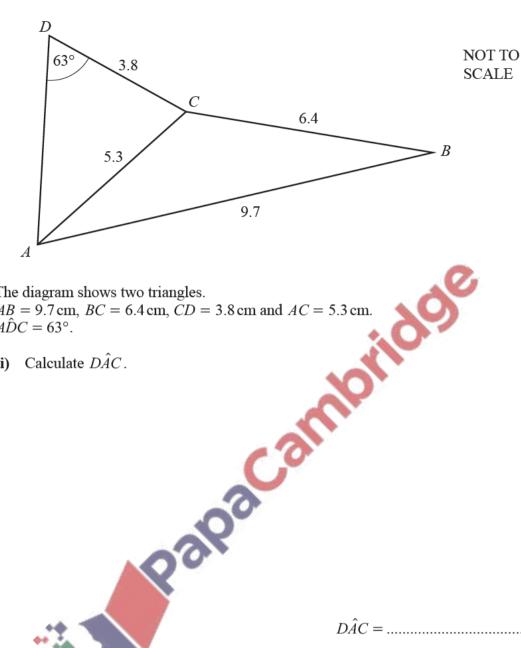
(ii) By taking suitable measurements from your triangle, calculate the area of triangle PQR.



..... cm<sup>2</sup> [2]

[2]

**(b)** 



The diagram shows two triangles.

$$AB = 9.7 \text{ cm}$$
,  $BC = 6.4 \text{ cm}$ ,  $CD = 3.8 \text{ cm}$  and  $AC = 5.3 \text{ cm}$ .  $A\hat{D}C = 63^{\circ}$ .

(i) Calculate  $D\hat{A}C$ .

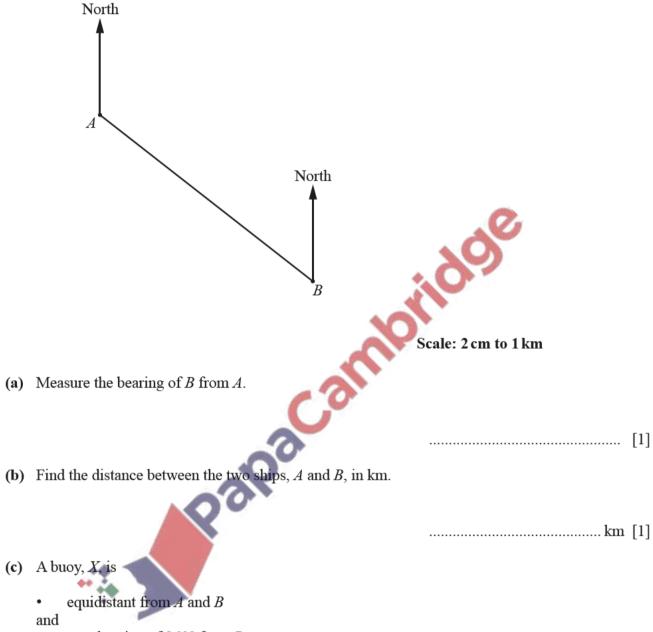


$$D\hat{A}C = \dots$$
 [3]

$$A\hat{B}C = \dots [3]$$

## **4.** June/2020/Paper\_11/No.21

The diagram shows the positions of two ships, A and B, drawn to a scale of 2 cm to 1 km.

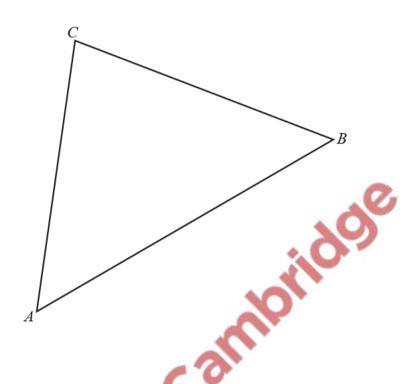


• on a bearing of  $260^{\circ}$  from B.

By making an accurate drawing, mark the position of X on the diagram. [2]

## **5.** June/2020/Paper\_12/No.12

Use a straight edge and compasses only in this question.



- (a) Construct the locus of points inside triangle ABC that are
  - (i)  $5 \operatorname{cm} \operatorname{from} B$ , [1]
  - (ii) equidistant from A and C. [2]
- (b) Shade the region inside triangle ABC containing the points that are
  - less than 5 cm from B and
    - closer to A than to C.