

# AREA OF TRIANGLE

[ESTIMATED TIME: 40 minutes]

# GCSE

(+ IGCSE) EXAM QUESTION PRACTICE

1.

[3 marks]

$ABCD$  is a kite.

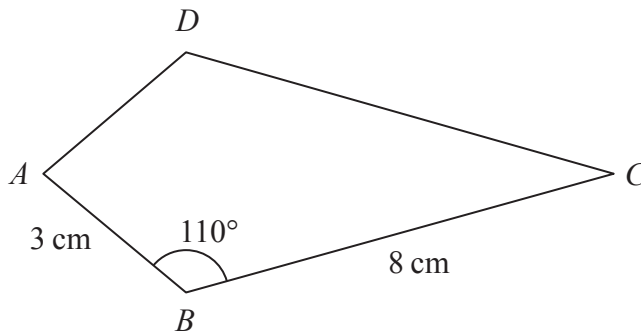


Diagram **NOT**  
accurately drawn

$$AB = 3 \text{ cm}$$

$$BC = 8 \text{ cm}$$

$$\text{Angle } ABC = 110^\circ$$

Calculate the area of the kite  $ABCD$ .

Give your answer correct to 3 significant figures.

.....  $\text{cm}^2$

2.

[3 marks]

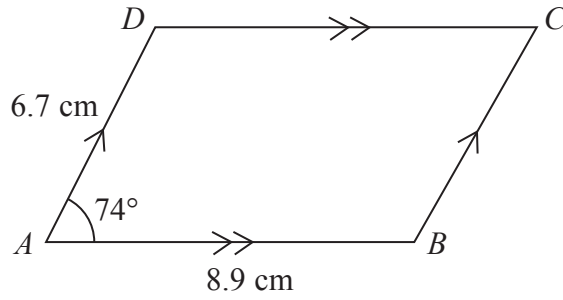


Diagram **NOT** accurately drawn

$ABCD$  is a parallelogram.

$AB = 8.9$  cm.

$AD = 6.7$  cm.

Angle  $BAD = 74^\circ$

Calculate the area of parallelogram  $ABCD$ .

Give your answer correct to 3 significant figures.

.....  $\text{cm}^2$

3.

[4 marks]

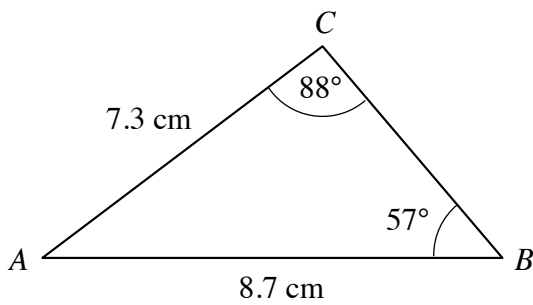


Diagram **NOT** accurately drawn

Calculate the area of triangle  $ABC$ .

Give your answer correct to 3 significant figures.

.....  $\text{cm}^2$

(4)

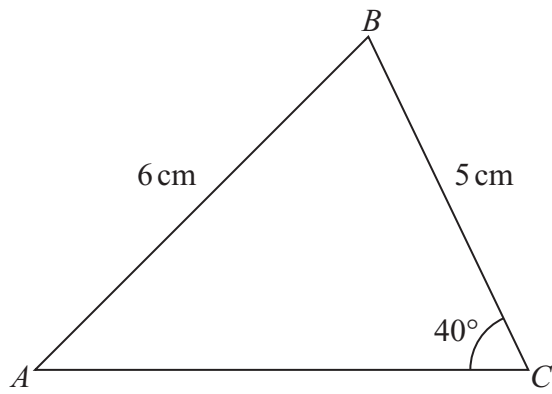


Diagram **NOT**  
accurately drawn

Calculate the area of triangle  $ABC$ .  
Give your answer correct to 3 significant figures.

.....  $\text{cm}^2$

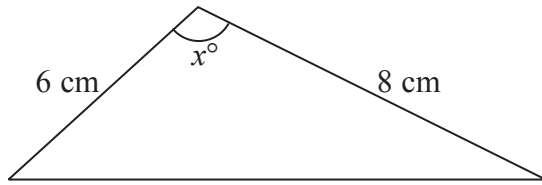


Diagram **NOT**  
accurately drawn

The area of the triangle is  $12 \text{ cm}^2$ .  
The angle  $x^\circ$  is obtuse.  
Calculate the value of  $x$ .

$x = \dots\dots\dots$

$ABC$  is a triangle.

$$AB = 12 \text{ cm}$$

$$AC = 14 \text{ cm}$$

The area of triangle  $ABC$  is  $72 \text{ cm}^2$

Find, in degrees, the two possible sizes of angle  $BAC$ .

Give your answers correct to the nearest degree.

.....

Here is triangle  $LMN$ , where angle  $LMN$  is an obtuse angle.

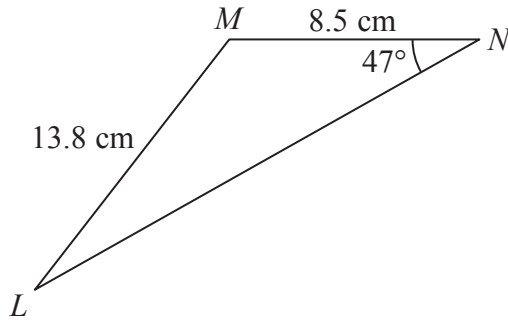


Diagram **NOT**  
accurately drawn

$$ML = 13.8 \text{ cm}$$

$$MN = 8.5 \text{ cm}$$

$$\text{Angle } MNL = 47^\circ$$

Work out the area of triangle  $LMN$ .

Give your answer correct to 3 significant figures.

..... $\text{cm}^2$

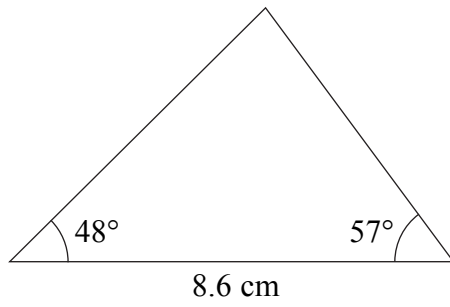


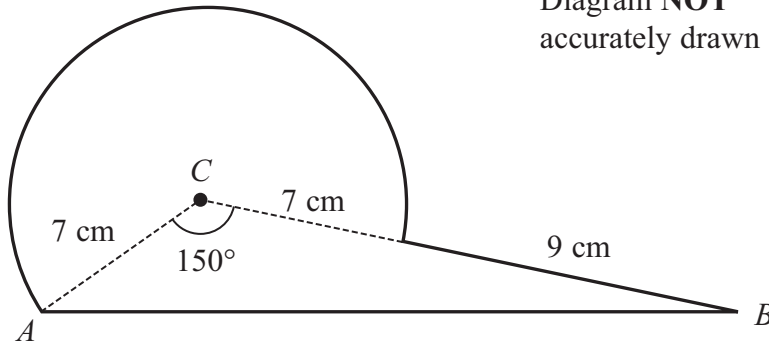
Diagram **NOT**  
accurately drawn

Calculate the area of the triangle.  
Give your answer correct to 3 significant figures.

..... cm<sup>2</sup>

Here is a shape.

Diagram **NOT**  
accurately drawn



The shape is made from triangle  $ABC$  and a sector of a circle, centre  $C$  and radius  $CA$ .

$CA = 7\text{ cm}$ .

$CB = 16\text{ cm}$ .

Angle  $ACB = 150^\circ$

Calculate the area of the shape.

Give your answer correct to 3 significant figures.

.....  $\text{cm}^2$