1. Fig. 7 shows a sketch of a village green $A B C$ which is bounded by three straight roads. $A B=$ $92 \mathrm{~m}, \mathrm{BC}=75 \mathrm{~m}$ and $\mathrm{AC}=105 \mathrm{~m}$.


Fig. 7
Calculate the area of the village green.
2.


Fig. 5

Fig. 5 shows triangle ABC , where angle $\mathrm{ABC}=72^{\circ}, \mathrm{AB}=5.9 \mathrm{~cm}$ and $\mathrm{BC}=8.5 \mathrm{~cm}$. Calculate the length of $A C$.
3.


Fig. 4
Fig. 4 shows triangle $A B C$, where $A B=7.2 \mathrm{~cm}, A C=5.6 \mathrm{~cm}$ and angle $B A C=68^{\circ}$. Calculate the size of angle ACB.
4. A triangular field has sides of length $100 \mathrm{~m}, 120 \mathrm{~m}$ and 135 m .
(a) Find the area of the field.
(b) Explain why it would not be reasonable to expect your answer in (a) to be accurate to the nearest square metre.
5. The sides of a triangle are of length 47,53 and 94 units. Calculate the size of the largest angle.
6. $\quad$ Fig. 6 shows a triangle with angle $\theta$ marked


Fig. 6

Calculate the size of angle $\theta$, giving your answer correct to the nearest degree.
7. Triangle ABC is shown in Fig. 1.


Fig. 1

Find the perimeter of triangle $A B C$.

## Mark scheme








