

AREA OF A TRIANGLE

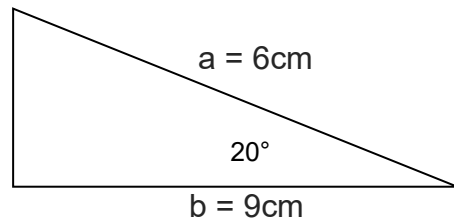
SKILLS QUESTIONS

SINE RULE

$$\text{Area} = a \times b \times \sin C$$

where a and b are the side lengths of a triangle and C is the angle between these two sides.

Q1. Use the Sine Rule to calculate the area of this triangle.

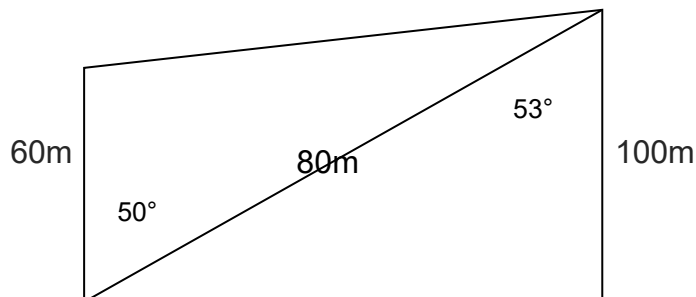


$$\begin{aligned} \text{Area} &= a \times b \times \sin C \\ &= 6 \times 9 \times \sin 20^\circ \\ &= \end{aligned}$$

Q2.

	Side a	Side b	Angle C <u>between</u> sides a and b
(a)	40	56	70°
(b)	25	68	30°
(c)	15	40	34°
(d)	200	354	40°
(e)	150	240	38°

Q3. Find the area of this farm which has been divided into two triangular sections.



ANSWERS

Q1. 18.45 cm^2

Q2. (a) 2104.91

(b) 850

(c) 335.52

(d) 45509.36

(e) 22163.81

Q3. 10066.1 m^2