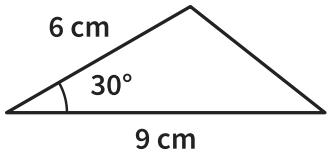
Area of a triangle: ½ab sin C

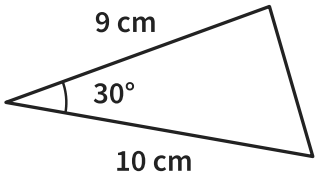
1
Find the area.



½ × 6 × 9 × sin 30°

Area = _____

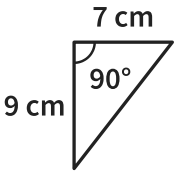
2
Find the area.



½ × 10 × 9 × sin 30°

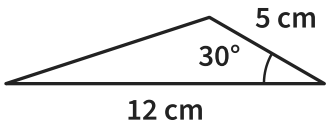
Area = _____

3 *Notice the change!*
Find the area.



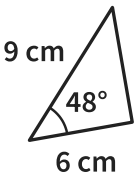
Area = _____

4
Find the area.



Area = _____

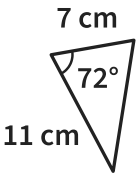
5
Find the area to 1 decimal place.



½ × 9 × 6 × sin 48°

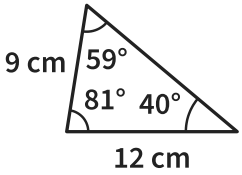
Area = _____

6
Find the area to 1 decimal place.



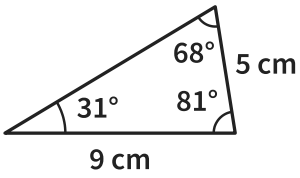
Area = _____

7 *Notice the change!*
Find the area to 1 decimal place.



Area = _____

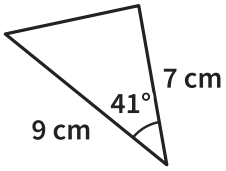
8
Mo works out the area like this:
½ × 5 × 9 × sin 68°. Explain his mistake and find the area.



Area = _____

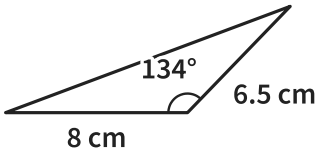
Area of a triangle: ½ab sin C *further practice*

9
Find the area to 1 decimal place.



Answer _____

10
Find the area to 1 decimal place.

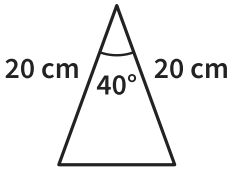


Answer _____

11
In triangle DEF, DE = 9 cm, EF = 12 cm and angle DEF = 65°. Find the area of the triangle to 1 decimal place.

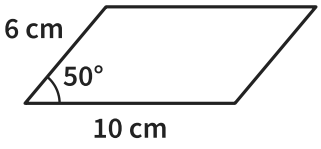
Answer _____

12
A bunting flag is a triangle. Its two long edges are each 20 cm and meet at an angle of 40°. Find the area of the flag to 1 decimal place.



Answer _____

13
Find the area of the parallelogram to 1 decimal place.



Answer _____

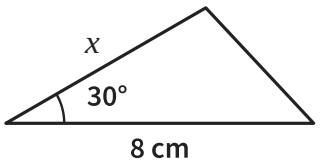
14
A garden is a triangle with sides of 12 m and 15 m and an angle of 100° between them. Turf costs £4.50 a square metre. Find the cost of turfing the garden, to the nearest pound.

Answer _____

15
Explain why a triangle with two sides of 6 cm and 8 cm can never have an area of more than 24 cm².

So _____

16
The area of the triangle is 12 cm².
Find x.



x = _____