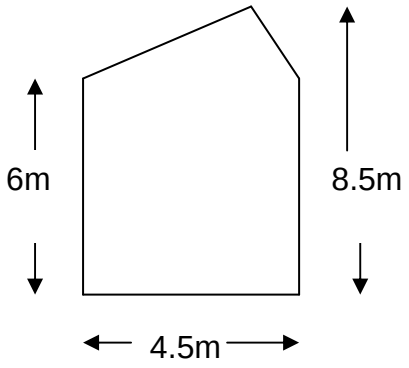
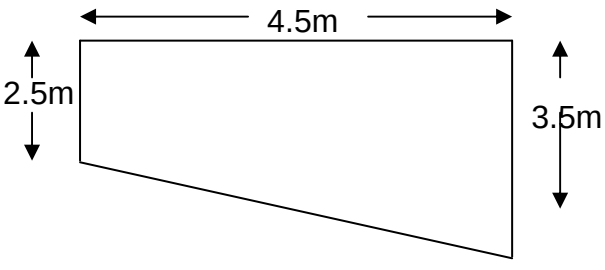
Perimeter and Area questions…

1) Find the area of a rectangular table that measures 70 cm by 90cm
2) Nigel has a triangular patch of grass on his lawn. If the base of the triangle is 5 metres and the perpendicular height of the triangle is 3.6 metres, work out the area of the triangle in square metres
3) A room is rectangular in shape and has dimensions 5.5 metres by 3.5 metres. Calculate the perimeter of the room.
4) The side of a house has the shape and dimensions shown below:



   a) Calculate the area of this shape
   b) Exterior paint covers $8m^2$ per litre. How many litre tins would be needed?

5) A piece of A4 paper measures 29.5cm by 20.5cm. Calculate the area of the paper. What value do you get if you multiply the value by 16?
6) A laboratory filter paper has diameter 100mm. Calculate the area of the filter paper in cm^2. Note the change of unit!
7) Fred has a flower bed that looks like the diagram below. Find the area



8) Naboth has a circular sand pit in his garden for the grandchildren. The diameter of the pit is 3.2m. Calculate the area of the pit
9) A flower bed in a park has a 1m path all the way round. The flower bed is 15m long and 12m wide. Calculate the area of the path. Hint: Draw a diagram!
10) Hermione has a car with wheels of diameter 40cm. Calculate how far the car travels forward in 100 turns of the wheel
11) A grass roller in a park has a diameter of 1.2m. The cricket pitch is 20.5 metres long. How many complete turns will the roller make when Algernon flattens the turf on the pitch
12) The wheels on the bus go round and round. The wheels are 45cm in diameter. How many turns of the wheel will the bus make when it travels 15Km?
13) A tent has a triangular end. The tent is 2 metres high and three metres wide at the base. Calculate the area of the end of the tent
14) Algernon has realised that if you walk forwards while wearing a blindfold, you actually end up walking in a large circle because of the different sizes of your stride. He finds that he walks 150m before arriving back at his starting point. Work out the diameter of the circle he walked in.

Answers

1) 6300 2) 9 sq m 3) 18m 4) a) 32.6 sq m b) Just over 4 so 5. 5) 605 sq cm, 9680 sq cm, nearly 1 sq m. 6) 78.6 sq cm 7) 13.5 sqm 8) 8.04 sqm 9) 58sqm 10) 126 m 11) 6 (5.4) 12) 10 609 turns 13) 3 sq m 14) 47.8 m