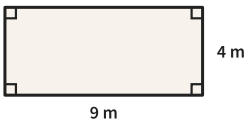
Interleaved: area, perimeter and circles

1

A garden bed is a rectangle 9 m long and 4 m wide. How much edging goes all the way round it?



Which method? Area | **Perimeter** | Circumference | Area of a circle

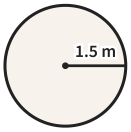
all the way round: 9 + 4 + 9 + 4 = 26, in m

26 m

Answer

2

A circular rug has a radius of 1.5 m. How much floor does it cover? Give your answer to 1 decimal place.

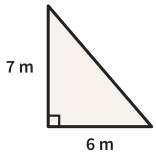


Which method? Area | Perimeter | Circumference | **Area of a circle**

Answer

3

A sail is a right angled triangle with a base of 6 m and a height of 7 m. How much fabric is in the sail?

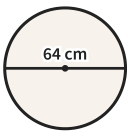


Which method? Area | Perimeter | Circumference | Area of a circle

Answer

4

A bike wheel has a diameter of 64 cm. How far does the bike move in one turn of the wheel? Give your answer to 1 decimal place.

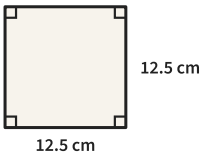


Which method? Area | Perimeter | Circumference | Area of a circle

Answer

5

Ribbon goes once round the edge of a square card with sides of 12.5 cm. How much ribbon is used?

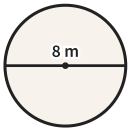


Which method? Area | Perimeter | Circumference | Area of a circle

Answer

6

A circular pond has a diameter of 8 m. Find the area of its surface. Give your answer to 1 decimal place.



Which method? Area | Perimeter | Circumference | Area of a circle

Answer

7

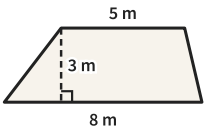
A circular flower bed has a radius of 3.5 m. A low fence goes all the way round it. How long is the fence? Give your answer to 1 decimal place.

Which method? Area | Perimeter | Circumference | Area of a circle

Answer

8

A patio is a trapezium. How many square metres of slabs cover it?



Which method? Area | Perimeter | Circumference | Area of a circle

Answer

Interleaved: area, perimeter and circles *further practice*

9

A rectangular field is 120 m long and 75 m wide. A farmer puts a fence all the way round it. How much fence does he need?

Answer

10

A pizza has a diameter of 30 cm. Find the area of its top. Give your answer to 1 decimal place.

Answer

11

The minute hand of a clock is 9 cm long. How far does its tip travel in one hour? Give your answer to 1 decimal place.

Answer

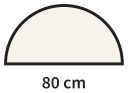
12

A wall is 4.2 m wide and 2.5 m high. What area of wall needs paint?

Answer

13

A semicircular window has a diameter of 80 cm. Find the area of the glass. Give your answer to 1 decimal place.



Answer

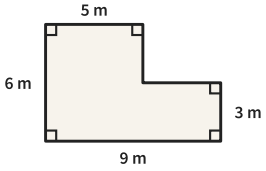
14

Trim goes all the way round the edge of the same window: the curved edge and the straight edge. How much trim is needed? Give your answer to 1 decimal place.

Answer

15

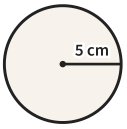
Skirting board goes all the way round the edge of this room. How much skirting board is needed?



Answer

16

Jo says a circle with a radius of 5 cm has an area of 31.4 cm². Explain her mistake and find the area.



Answer