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7th Grade Area Worksheets

Questions

1. The length of a square farm is 200 m. Find

(i) Its area

(ii) the cost of the land, if 1 m² of the land costs \$100.



2. Find the area of a square park whose perimeter is 320 m.

3. Find the breadth of a rectangular plot of land, if its area is 440 m² and the length is 22 m. Also find its perimeter.

4. The perimeter of a rectangular sheet is 100 cm. If the length is 35 cm, find its breadth. Also find the area.

5. A gardener wants to fence a circular garden of diameter 25 m. Find the length of the rope he needs to purchase, if he makes 2 rounds of fence.

Also find the cost of the rope, if it costs \$12 per meter. (Take $\pi = 22/7$)



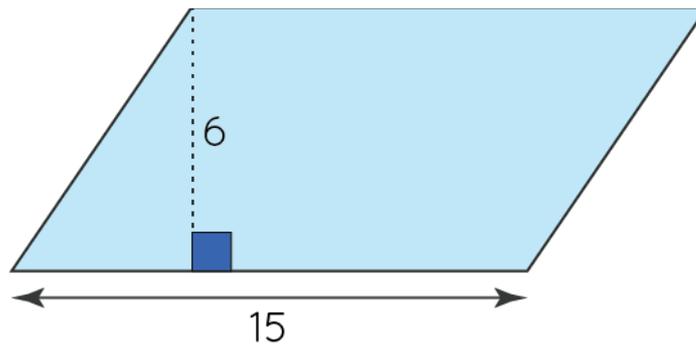
6. From a circular sheet of radius 4 cm, a circle of radius 3 cm is removed. Find the area of the remaining sheet.

7. Saima wants to put a lace on the edge of a circular table cover of 2 m diameter. Find the length of the lace required and also find its cost if one meter of the lace costs \$5. (Take $\pi = 3.14$)

8. Find the cost of polishing a circular table-top of diameter 1.6 m, if the rate of polishing is \$5/m². (Take $\pi = 3.14$)



9. Find the area of the given parallelogram:



10. Sam took a wire of length 44 cm and bent it into the shape of a circle. Find the approximate length of the radius of that circle. Also, then find its area. If the same wire is bent into the shape of a square, what will be the length of each of its sides? Which figure encloses more area, the circle or the square? (Take $\pi = 22/7$)



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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1) Area = 400 m^2 Cost = \$40000	2) Area = 120000 m^2 Cost = \$12000000	3) Breadth = 20 m
4) Breadth = 15cm Area = 525 cm^2	5) Length = 157.08 m Cost = \$1884.96	6) 22 m^2
7) Length = 6.28m. Cost = \$31.4	8) Cost = \$10.02	9) Area = 90 units.
10) Radius = 7 cm Area = 154.06 cm^2 Length of each side of the square = 11 cm The circle encloses more area.		

FUN FACT

1. 15% of the earth is covered by ice.
2. Among all the shapes with the same perimeter, a circle has the largest area.
3. One uses the concept of area in everyday life wrt:

- Carpets and tiles
- Floor area for buying a house
- Wallpaper placement
- Painting costs
- Fabric used for clothing etc.

