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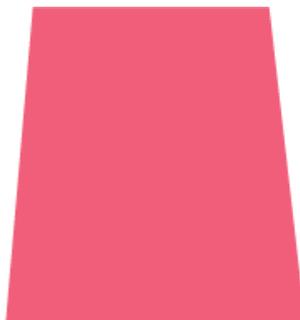
7th Grade Area Worksheets

Questions

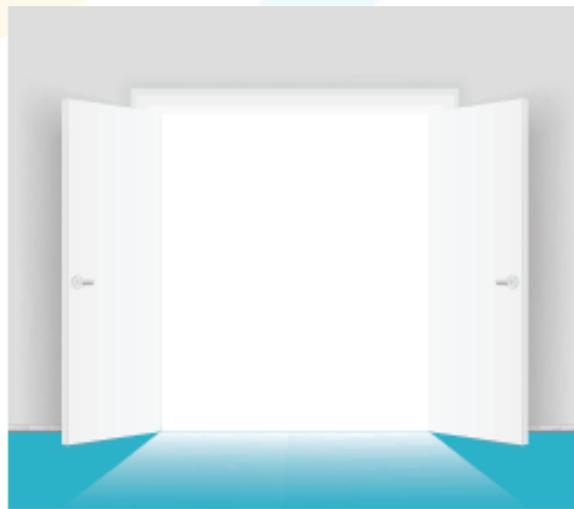
1. The perimeter of a rectangular land is 180 m. If the breadth of the land is 30 m. Find the length and area of the land.



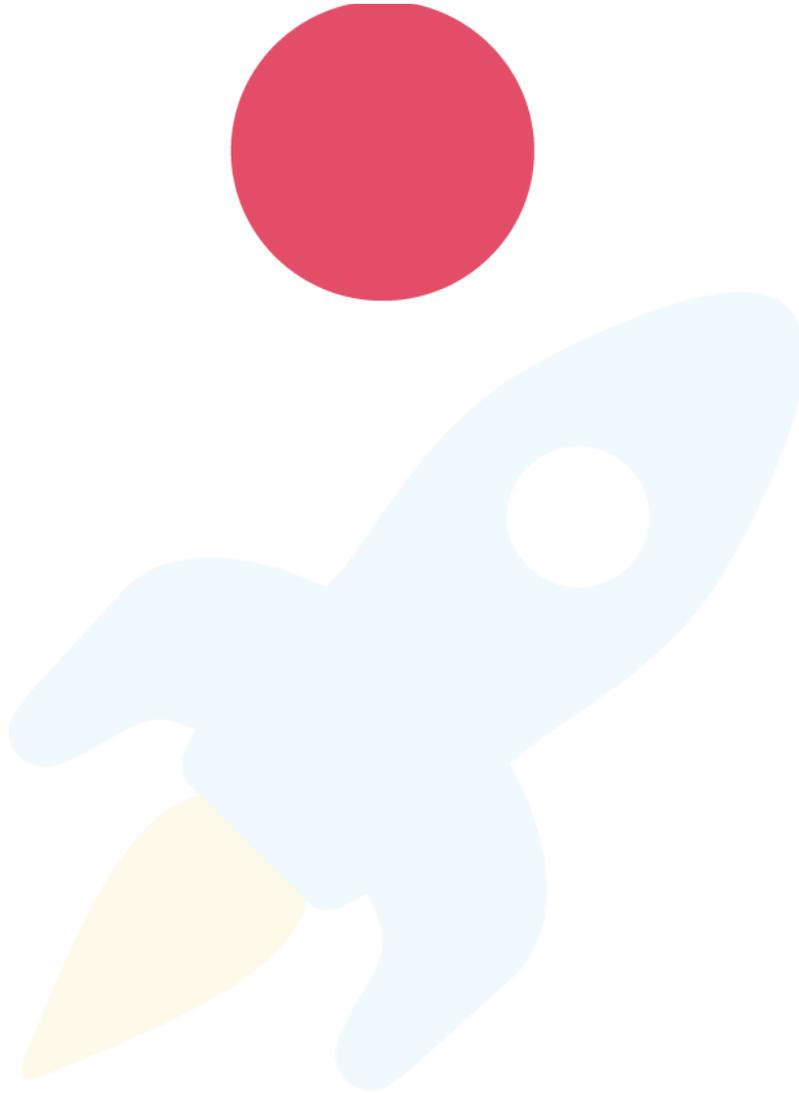
2. A rectangular garden has a length and breadth of 400 m and 300 m respectively. Find its area and the cost of the land, if 1 m² of the land costs \$100.
3. What will be the area of square park with a perimeter of 400 m?
4. A gardener wants to fence a circular garden of diameter 21m. Find the length 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 $\pi = 22/7$)



5. The perimeter of a rectangular gift paper is 100 cm. If the length is 55 cm, find its breadth. Also find the area.
6. The area of a square park and a rectangular park is the same. The side length of the square park is 60 m and the length of the rectangular park is 90 m. What is the breadth of the rectangular park?
7. A rectangle made out of a wire has length of 40 cm and breadth 22 cm. If the same wire is rebent in the shape of a square, what will be the measure of each side? Also compare the two areas.
8. Carol wants to put a lace on the edge of a circular table cover of 1.5 m diameter. Find the length of the lace required and also find its cost if one meter of the lace costs ₹ 15. (Take $\pi = 3.14$)
9. A room has a wall of 8 m length and its breadth is 5 m. A door occupies a length 2 m and breadth 1 m in the wall. What will be the cost of white washing the wall excluding the door's area, given the rate of white washing the wall is \$2 per m^2 .



10. The circumference of the red circular sheet is 112 m, find its radius. Also find its area. (Take $\pi = 22/7$)



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"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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) Length = 60 m Area = 1800m^2	2) Area = 120000m^2 Cost = \$12000000	3) Area = 1000m^2
3) Length = 31.94m Cost = \$1583.28	4) Breadth = 45 cm Area = 2475 cm^2	6) 40m
7) Length of each side of square = 15.5 cm Square will cover a larger area	8) Length = 4.71 m Cost = \$70.65	9) Cost = \$76
10) Radius = 17.82 m Area = 998.22 m^2		

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.

