



MATHS

BOOKS - NAVNEET PUBLICATION

AREA

Question Bank

1. If base of a parallelogram is 18 cm and its height is 11 cm, find its area.



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2. If area of a parallelogram is 29.6 sq cm and its base is 8 cm, find its height.



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3. Area of a parallelogram is 83.2 sq cm. If its height is 6.4 cm, find the length of its base.



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4. Lengths of the diagonals of a rhombus are 15 cm and 24 cm, find its area.



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5. Lengths of the diagonals of a rhombus are 16.5 cm and 14.2 cm, find its area.



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6. If perimeter of a rhombus is 100 cm and length of one diagonal is 48 cm, what is the area of the quadrilateral ?



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7. If length of a diagonal of a rhombus is 30 cm and its area is 240 sq cm, find its perimeter.



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8. In $\square ABCD$, $\iota(AB) = 13$ cm,
 $\iota(DC) = 9$ cm, $\iota(AD) = 8$ cm, find the area of
 $\square ABCD$.



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9. Length of two parallel sides of trapezium
are 8.5 cm and 11.5 cm respectively and its
height is 4.2 cm, find its area.



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10. $\square PQRS$ is an isosceles trapezium,
 $\iota(PQ) = 7\text{cm}$.

$SegPM \perp segSR$, $\iota(SM) = 3\text{ cm}$. Distance
between two parallel sides is 4 cm, find the
area of $\square PQRS$.



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11. Sides of a triangle are 45 cm, 39 cm and 42
cm, find its area.



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12. Radius of the circles are given below, find their areas.

28 cm



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13. Radii of the circles are given below, find their areas.

10.5 cm



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14. Radii of the circles are given below, find their areas.

17.5 cm



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15. Areas of some circles are given below. Find their diameters.

176 sq cm



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16. Areas of some circles are given below. Find their diameters.

394.24 sq cm



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17. Areas of some circles are given below. Find their diameters.

12474 sq cm



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18. Diameter of the circular garden is 42 m.

There is a 3.5 m wide road around the garden.

Find the area of the road.



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19. Find the area of the circle if its circumference is 88 cm.



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20. If the lengths of diagonals of rhombus 11.2 cm and 7.5 cm then its area is

A. 42 sq cm

B. 42 cm

C. 84 sq cm

D. 84 cm

Answer: A



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21. If the area of a parallelogram is 112 sq cm and base is 10 cm then the height of parallelogram is

A. 10 cm

B. 11.2 cm

C. 12.5 cm

D. 12 cm

Answer: B



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22. If the radius of a circle is 21 cm then area of the circle is

A. 1386 sq cm

B. 1368 sq cm

C. 441 sq cm

D. 1441 sq cm

Answer: A



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23. 1 acre is nearly

A. 0.5 hectare

B. 0.4 hectare

C. 0.2 hectare

D. 1 hectare

Answer: B



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24. If the area of the circle of radius 10 cm is equal to the area of parallelogram of base 31.4 cm then its height is

A. 31.4 cm

B. 12 cm

C. 10 cm

D. cannot be determined

Answer: C



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25. What is the area of a parallelogram whose base is 12 cm and height 7 cm ?



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26. The area of a parallelogram is 26 sq cm. If its base is 6.5 cm, what is its height ?



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27. The area of parallelogram is 72 sq cm. If its height is 8 cm, what is its base ?



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28. What is the area of triangle whose base is 18.2 cm and height 7.5 cm ?



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29. A triangle has an area of 11.6 sq cm. If its height is 2.9 cm, what is its base ?



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30. If the diagonals of rhombus are 15 cm and 18 cm, then find its area.



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31. The area of a rhombus is 990 sq cm. If the length of one of its diagonals is 36 cm, what is the length of the other diagonal ?



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32. The two parallel sides of a trapezium are 10 cm and 22 cm. If its height is 12 cm, what is its area ?



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33. Find the area of the circle if its radius is 2.1 m.



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34. A circle has radius 35 cm. Find the circumference.



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35. If the area of a trapezium is 286 sq cm and its height is 13 cm, what is the sum of its parallel sides ? If one of these sides is 20 cm, what is the length of the other ?



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36. The sides of a triangle are 17 cm, 25 cm and 26 cm respectively. What is its area ?



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37. A circular playground has a circumference of 145.2 m. Find its radius and diameter.



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38. The circumference of the circle is 22 m.
Find its area



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39. What will it cost to paint the circular roof of a building of radius 4.2 m at the rate of ₹ 25 per square metre ?



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40. The diameter of circular lid is 2.8m. How much will it cost to paint both sides of 100 such lids at the rate of ₹ 20 per sq m. ?



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41. In the figure $\square STNE$ is a rectangle. Q is the midpoint of ST then find area of the $\square STNE$, area of $\triangle NTQ$ and $\triangle QSE$ and area of the shaded portion.



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