Mathematics -Class 6

MENSURATION

1. If the side of a sqaure s 'x' then ts area is

   A) x   B) x^2 C) 4x   D) 2x

   Ans : B

2. If the side of a square is 'x' then its perimeter is

   A) x   B) x^2 C) 4x   D) 2x

   Ans ; C

3. Perimeter of rectangle whose length 'l' s and breadth is 'b' is
   A) lb   B) 2(l + b)   C) 2l   D) 2

   Ans : B

4. Area of rectangle whose length 'x' is and breadth s 'y'
   A) xy   B)x + y   C) x – y   D) 2(x + y)

   Ans : A

5. Area of triangle with base 'b' and height 'h' is

   A) $\frac{1}{2}$bh   B) bh   C) (b + h)   D) All

   Ans : A

6. 50^0, 80^0 are two angles of triangle, then triangle is
   A) equilateral   B) isosceles   C) scalene   D) can't say

   Ans : B

7. 45^0, 90^0 are two angles of a triangle, then triangle is
   A) acute triangle   B) obtuse triangle
   C) isosceles   D) scalene

   Ans : C

8. 3cm, 4cm, 5cm are the side of _____ triangle
   A) equilateral   B) acute   C) obtuse   D) right

   Ans : D

9. Each angle in a square is
   A) 30^0 B) 60^0 C) 90^0 D) 120^0

   Ans : C

10. Sum of any two sides of a triangles _____ the third side.
    A) equal to   B) less than   C) greater than   D) all

    Ans : C

11. The diagonals of a square divide the square into 4 _____ triangles
    A) right angled   B) isosceles   C) right isosceles   D) all

Ans : D

12. If the side of a square is 60cm then its perimeter is _____
    A) 240cm   B) 240cm^2 C) 150cm   D) 3600cm

Ans : A

13. In a triangle angles ratio is 1 : 1 : 1 then sides ratio is
    A) $1 : 1 : \sqrt{2}$ B) $1 : \sqrt{2} : 1$ C) $\sqrt{2} : 1 : 1$ D) None

Ans : D

14. Height of an angles ratio is 1 : 1 : 1 then sides ratio is
    A) $\sqrt{3}a$ B) $\sqrt{3}\,a/4$ C) $\dfrac{\sqrt{3}a}{2}$ D) $\dfrac{\sqrt{3}a^2}{4}$

Ans : C

15. In a triangle angles are in the ratio 1 : 1 : 2 then corresponding sides ratio is
    A) $1:1:\sqrt{2}$ B) $1:\sqrt{2}:1$ C) $1:1:1$ D) $1:\sqrt{3}:2$

Ans : A

16. In a triangle angles are in the ratio 1 : 2 : 3 then sides ratio is
    A) $1:\sqrt{3}:2$ B) $1:3:\sqrt{2}$ C) $1:\sqrt{3}:\sqrt{2}$ D) $1:\sqrt{3}:\sqrt{2}$

Ans : A

17. Area of isosceles right angle triangle is 32cm^2 then length of its hypotenuse
    A) 8   B) $8\sqrt{2}$ C) 4   D) $2\sqrt{8}$

Ans : B

18. Area of an equilateral triangle is then its perimeter is
    A) 4   B) 8   C) 48   D) 84

Ans : C

19. d_1, d_2 are length of diagonals of rhombus then its area is
    A) d_1d_2 B) $d_1\left(\dfrac{d_2}{4}\right)$ C) $\left(\dfrac{d_1}{2}\right)d_2$ D) $\frac{1}{2}d_1(h_1 + h_2)$

Ans : C

20. a, b are lengths of parallel sides and 'h' is the distance between parallel sides of a trapezium then its area is
    A) $\dfrac{1}{2}ah$ B) $a\dfrac{h}{2} + \dfrac{1}{2}bh$ C) $h(a + b)$ D) abh

Ans : B

21. The diagonal of a quadrilateral is 'd' heights of the vertices opposite to the diagonal are h_1 and h_2 then its area is
    A) dh_1h_2 B) $\dfrac{1}{2}dh_1h_2$ C) $\dfrac{1}{2}dh_1 + h_2$ D) $d\left(\dfrac{h_1}{2} + \dfrac{h_2}{2}\right)$

Ans : D

22. In which of the following diagonals need not to bisect each other
    A) Rhombus   B) square   C) parallelogram   D) trapezium
Ans : D

23. The ratio of angles in a quadrilateral is 1 : 2 : 3 : 4 the its smallest angle is
    A) 36^0 B) 63^0 C) 72^0 D) 144^0
Ans : A

24. The angle in a quadrilateral are x, x+ 10, x + 20, 2x – 30 then ts greatest angle is
    A) 141^0 B) 114^0 C) 72^0 D) 92^0
Ans : B

25. Area of trapezium is cm^2 where a,b are parallel sides in it, then distance between a & b is

    $\overline{A) a + b}$ B) b + a   C) b – a   D) a – b
Ans : D

26. Base and height of a parallelogram are 12cm, and 7cm then its area is
    A) $84cm^2$ B) 84cm   C) $96cm^2$ D)$42cm^2$
Ans : A

27. In a , BC = 8cm, altitude from A to BC is 6cm then its area is
    A) $48cm^2$ B) $24cm^2$ C) $42cm^2$ D) None
Ans : B

28. In a quadrilateral ABCD, AC = 10cm, lengths of perpendiculars from B to D to AC are 5cm, 7cm,
    respectively then its area is
    A) $60cm^2$ B) $50cm^2$ C) $100cm^2$ D) $120cm^2$
Ans : A

29. In a quadrilateral, diagonals intersect at right angle and have length equal to 6cm and 7cm then its
    area is
    A) $\dfrac{21}{2} cm^2$ B) $21cm^2$ C) $\dfrac{42}{2} cm^2$ D) both 2 & 3
Ans : D

30. The area of parallelogram ABCD is 102cm^2, distance between AB and CD is 8.5cm then length of
    AB is
    A) 10cm   B) 11cm   C) 6cm   D) 12cm
Ans : D

31. If d is the length of the diagonal of square then ts area is
    A) d^2 B) $\dfrac{d}{2}$ C) $\dfrac{1}{2} d.d$ D)$\sqrt{d}$

Ans : C

32. In a parallelogram ABCD, DP AC and AC = 10cm, DP = 4cm, AB = 8cm then distance between AB and CD is

A) 10cm   B) 8cm   C) 6cm   D) None

Ans: D

33. ABCD is a parallelogram whose area is 60cm^2 and DPAC, AC = 12cm then the length of DP = _____

A) 10cm   B) 6cm   C) 5cm   D) 9cm

Ans : C

34. The parallel sides of a trapezium are and and distance between them is , then side of a square which has the same area as trapezium

A) 16cm   B) 4cm   C) 8cm   D) 2cm

Ans : A

35. The area of rhombus is 25cm^2 one of the diagonal is 10cm long then the length f other diagonal is

A) 20cm   B) 15cm   C) 10cm   D) 5cm

Ans : D

36. The diagonal of a square is 18cm, and then side of the square is

A) 9cm   B) cm   C) cm   D) cm

Ans : B

37. Perimeter of a rectangle =

(A) Length × Breadth(B) Length + Breadth

(C) 2 × (Length + Breadth)(D) 2 × (Length × Breadth).

Answer: (C)

38. Perimeter of a square =

(A) 4 × Length of a side(B) 2 × Length of a side

(C) 3 × Length of a side(D) 6 × Length of a side.

Answer: (A)

39. Perimeter of an equilateral triangle

(A) 2 × Length of a side(B) 3 × Length of a side

(C) 4 × Length of a side(D) 6 x Length of a side.

Answer: (B)

40. Area of a rectangle =

(A) Length × Breadth(B) Length + Breadth

(C) 2 × (Length + Breadth)(D) 2 × (Length × Breadth).

Answer: (A)

41. Area of a square =

(A) side × side(B) 4 × Length of a side

(C) 2 × Length of a side(D) 6 × Length of a side.

Answer: (A)

42. Perimeter of a regular pentagon =

(A) 4 × Length of a side(B) 3 × Length of a side

(C) 6 × Length of a side(D) 5 × Length of a side.

Answer: (D)

43. Perimeter of a regular hexagon =

(A) 3 × Length of a side(B) 4 × Length of a side

(C) 5 × Length of a side(D) 6 × Length of a side.

Answer: (D)

44. Apala went to a park 20 m long and 10 m wide. She took one complete round of it. The distance covered by her is

(A) 30 m(B) 60 m(C) 20 m(D) 10 m.

Answer: (B)

45. The perimeter of the figure is

A ——— 4 m ——— B
3 m (left side), 3 m (right side)
D ——— 4 m ——— C
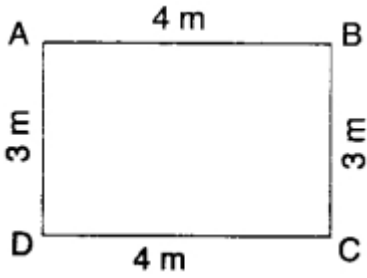
(A) 12m(B) 14m(C) 24 m(D) 7 m.

Answer: (B)

46. The perimeter of the figure is

A ——— 2 m ——— B
2 m (left side), 2 m (right side)
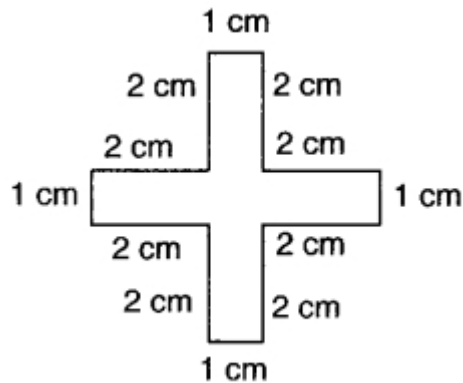D ——— 2 m ——— C
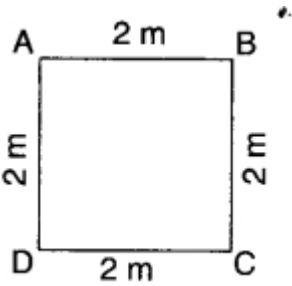
(A) 8m(B) 16m(C) 4m(D) none of these.

Answer: (A)

47. A page is 25 cm long and 20 cm wide. Find the perimeter of this page.

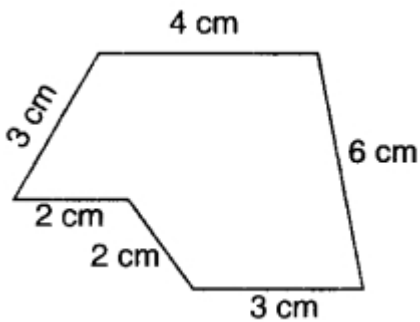(A) 90 cm(B) 45 cm(C) 500 cm(D) 5 cm.

Answer: (A)

48. The perimeter of the figure is

(A) 5 cm(B) 10 cm(C) 15 cm(D) 20 cm.

Answer: (D)

49. The perimeterof the figure is

(A) 20 cm(B) 10 cm(C) 24 cm(D) 15 cm.

Answer: (A)

50. Meenu wants to put a lace border all around a rectangle table cover 2 m long and 1 m wide. Find the length of the lace required by Meenu.

(A) 3 m(B) 4 m(C) 5 m(D) 6m.

Answer: (D)

51.   Find the perimeter of a rectangle whose length and breadth are 9 cm and 1 cm respectively,

(A) 10 cm(B) 20 cm(C) 30 cm(D) 40 cm.

Answer: (B)

52. An athlete takes 10 rounds of a rectangular park, 40 m long and 30 m wide. Find the total distance covered by him.

(A) 1400 m(B) 700 m(C) 70 m(D) 2800 m.

Answer: (A)

53.Find the cost of fencing a rectangular park of length 10 m and breadth 5 m at the rate of? 10 per metre.

(A) ₹ 300(B) ₹ 600(C) ₹ 150(D) ₹ 1200.

Answer: (A)

54. The perimeter of a square of side 1 m is

(A) 1 cm(B) 2 cm(C) 3 cm(D) 4 m.

Answer: (D)

55. The perimeter of an equilateral triangle of side 1 m is

(A) 1 m(B) 2 m(C) 3 m(D) 6 m.

Answer: (C)

56. The perimeter of a regular pentagon of side 1 m is

(A) 5 m(B) 10 m(C) 15m(D) 20m.

Answer: (A)

57. The perimeter of a regular hexagon of side 1 m is

(A) 3 m(B) 2 m(C) 4 m(D) 6 m.

Answer: (D)

58. Find the distance travelled by Sangeeta if she takes 5 rounds of a square park of side 10 m.

(A) 200 m(B) 100 m(C) 400m(D) 800 m.

Answer: (A)

59. The perimeter of an equilateral triangle is 9 m. Find the length of the side.

(A) 1 m(B) 2 m(C) 3 m(D) 9 m.

Answer: (C)

60. The perimeter of a square is 8 m. Find the length of the side.

(A) 1m(B) 2m(C) 4m(D) 8m.

Answer: (B)

61. The perimeter of a regular pentagon is 10 m. Find the length of the side.
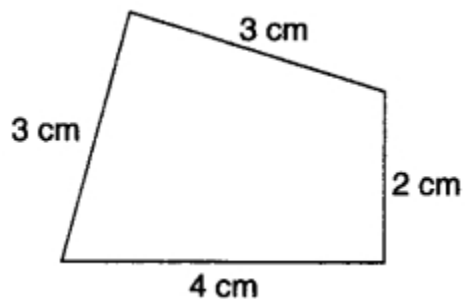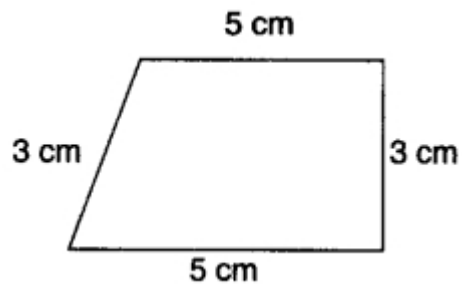
(A) 1m(B) 2m(C) 5m(D) 10m

Answer: (B)

62. The perimeter of a regular hexagon is 12 m. Find the length of the side.

(A) 2m(B) 3m(C) 4m(D) 6m.

Answer: (A)

63. The perimeter of the figure is

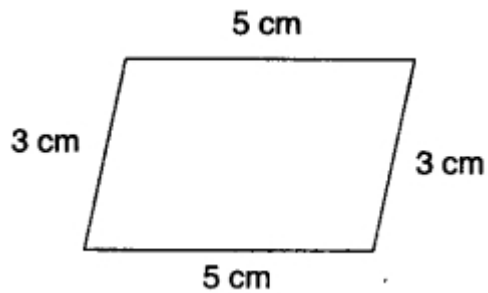(A) 12 cm(B) 7 cm(C) 6 cm(D) 24 cm.

Answer: (A)

64. The perimeter of the figure is

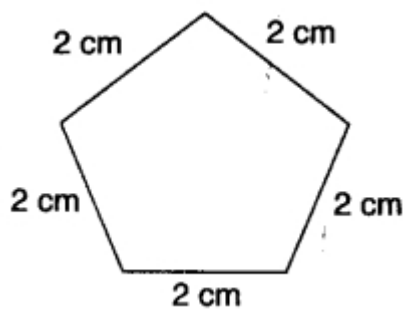(A) 15 cm(B) 30 cm(C) 7.5 cm(D) 20 cm.

Answer: (A)

65. The perimeter of the figure is

(A) 8 cm(B) 12 cm(C) 15 cm(D) 16 cm.

Answer: (D)

66. The perimeter of the figure is

(A) 10 cm(B) 20 cm(C) 15 cm(D) 50 cm.

Answer: (A)

67..The perimeter of a triangle of sides 2 cm, 3 cm and 4 cm is

(A) 9 cm(B) 18 cm(C) 27 cm(D) 36 cm.

Answer: (A)

68. Two sides of a triangle are 5 cm and 4 cm. The perimeter of the triangle is 12 cm. The third side has length

(A) 1 cm(B) 2 cm(C) 3 cm(D) 6 cm.

Answer: (C)

69. A rectangular piece of land measures 0.5 km by 0.25 km. Each side is to be fenced with 4 rounds of wire. What is the length of the wire needed?

(A) 2 km(B) 3 km(C) 4km(D) 6 km.

Answer: (D)

70. The area of a rectangle of length 2 cm and breadth 1 cm is

(A) 1 cm2(B) 2 cm2(C) 4 cm2(D) 8 cm2.

Answer: (B)

71. The area of a square of side 1 cm is

(A) 1 cm2(B) 4 cm2(C) 9 cm2(D) 16 cm2.

Answer: (A)

72. The area of a rectangular sheet of paper is 20 cm2. Its length is 5 cm. Find its width.
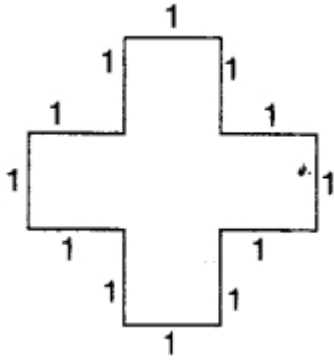
(A) 1 cm(B) 2 cm(C) 3 cm(D) 4 cm.

Answer: (D)

73. The perimeter of a rectangular piece of card board is 6 m. Its breadth is 1 m. Find its length.
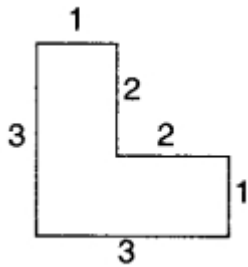
(A) 1 m(B) 2 m(C) 3m(D) 6m.

Answer: (B)

74. The area of the figure is

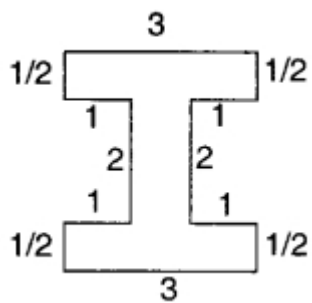(A) 1 sq. unit(B) 5 sq. unit(C) 4 sq. unit(D) 6 sq. unit

Answer: (B)

75. The area of the figure in (sq. unit) is

(A) 1(B) 5(C) 4(D) 6

Answer: (B)

76. The area of the figure is

(A) 5 sq. unit(B) 9 sq. unit(C) 7 sq. unit(D) 8 sq. unit.

Answer: (A)

77. The side of a square is 6 cm. If its side is doubled, then its new perimeter is

(A) 48 cm(B) 36 cm(C) 60 cm(D) 24 cm

Answer(A)

78. The side of a square is 8 cm. If its side is doubled, then its new perimeter is

(A) 48 cm(B) 32 cm(C) 40 cm(D) 64 cm

Answer(D)

79. The area of a rectangle is 630 sq. cm and its breadth is 15 cm. What is its length?

(A) 40 cm(B) 60 cm(C) 42 cm(D) 35 cm

Answer(C)

80. The area of square is 100 cm2. Its side is

(A) 20 cm(B) 5 cm(C) 10 cm(D) 10.5 cm

Answer(C)

81. On a wall of dimensions 10.5 m long and 8.5 m wide, a square shaped wall poster is stuck at the centre whose side measure is 2.5 m. If the remaining part of the wall is to be painted with pink colour costing Rs. 12 per sq. m, how much does it cost?

(A) Rs. 89.25(B) Rs. 996(C) Rs. 830(D) Rs. 12

Answer(B)

82. A table top is covered with 25 squares of equal size. The side of the square is 3 cm. What is the area of the table top?

(A) 300 sq. cm(B) 225 cm(C) 225 sq. cm(D) 300 cm

Answer(C)

83. . What is the perimeter of a rectangle of length l and breadthb?

(A) 2l+b units(B) l × b units(C) 2(l+b) units(D) 2(l−b) units

Answer(C)

84.   In a square shaped park, whose side measures 28 m, a rectangular pond is located at the centre with dimensions 3 m and 2 m. What is the area of the park excluding the pond?

(A) 784 sq. m(B) 6 sq. m(C) 778 sq. m(D) 708 sq. m

Answer(C)

85.   Samuel wanted to erect some vertical stones along the boundary of his plot at a distance of 10 m each. If the length of the plot is 30 m and the breadth is 15 m how many stones are required?

(A) 450(B) 45(C) 9(D) 10

Answer(C)

86.   The side of a square is 12 m. Its perimeter is

(A) 36 m(B) 24 m(C) 48 m(D) 144 m

Answer(C)

87.   Meera went to a park 150 m long and 80 m wide. She took one complete round on its boundary. What is the distance covered by her?

(A) 230 m(B) 460 m(C) 300 m(D) None of these

Answer(B)

88. . The length of a rectangle is 150 cm. If its breadth is 1 m, then its perimeter is

(A) 300 cm(B) 250 cm(C) 5 m(D) 2.5 m

Answer(C)

89.   The length and breadth of a rectangle are 10 cm and 8 cm respectively. If its length is doubled, then its new area is

(A) 160 cm(B) 80 cm2(C) 160 cm2(D) None of these

Answer(C)

90.   The perimeter of a rectangle is 170 m and its length is 50 m. What is its breadth?

(A) 80 m(B) 35 m(C) 55 m(D) 60 m

Answer(B)

91. A wooden plank measures 6 m in length and 3 m in breadth. If five such wooden planks are arranged in order, what is the area occupied by them?

(A) 18 sq. m(B) 90 sq. m(C) 5 sq. m(D) 95 sq. m

Answer(B)

92. . What do you call the total boundary length of a closed figure?

(A) Area(B) Volume(C) Perimeter(D) Region

Answer(C)

93. The length and breadth of a rectangle are 40 cm and 10 cm respectively. Its perimeter is

(A) 140 cm(B) 160 cm(C) 100 cm(D) 120 cm

Answer(C)

94. What is the amount of surface enclosed by a closed figure called?

(A) Volume(B) Area(C) Space(D) Perimeter

Answer(B)

95. 80 students of the same height stand with both hands stretched all along the sides of a rectangular garden, each student covering a length of 1.75 m. What is the perimeter of the garden?

(A) 1400 m(B) 140 m(C) 14 m(D) 1400 km

Answer(B)

96. Perimeter of a square = _____ × length of a side

(A) 4(B) 3(C) 2(D) None of these

Answer(A)

97. Perimeter of a rectangle =

(A) Length × Breadth   (B) Length + Breadth

(C) 2 × (Length + Breadth)   (D) 2 × (Length × Breadth).

Answer: (C)

98. Perimeter of a square =

   (A) 4 × Length of a side   (B) 2 × Length of a side

   (C) 3 × Length of a side   (D) 6 × Length of a side.

Answer: (A)

99. Perimeter of an equilateral triangle

   (A) 2 × Length of a side   (B) 3 × Length of a side

   (C) 4 × Length of a side   (D) 6 x Length of a side.

Answer: (B)

100. Area of a rectangle =

   (A) Length × Breadth   (B) Length + Breadth

   (C) 2 × (Length + Breadth)   (D) 2 × (Length × Breadth).

Answer: (A)