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Class: 6
Subject: Mathematics
Topic: Mensuration
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

Q1. Find the area and perimeter of a rectangular plot of land whose length and breadth are 15.4 m and 6.5 m respectively.
A. 100.10 sq. m, 43.8 m
B. 43.8 m, 100.10 sq. m
C. 4.38 m, 100.10 sq. m
D. 1001.10 sq. m, 4.38 m
Answer: A

Solution:
Area= length × breadth
=15.4×6.5
=100.1
Perimeter =2(l+b) =2 (15.4+6.5)
=2((21.9) =43.8m

Q2. The total cost of flooring a room at Rs. 8.50 per sq. meter is Rs. 510. If the length of the room is 8 meters, find its breadth.
A. 7.4 m
B. 7.5 m
C. 8.5 m
D. 5.8 m
Answer: B

Solution:
Area = $\frac{\text{Total cost}}{\text{cost per m}^2} = \frac{510}{8.50}$
Length x breadth = $\frac{510}{850}$
Breadth = $\frac{60}{8} = 7.5$

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Q3. A square and a rectangular plot of land have same perimeter, If the square is of side 40 m and rectangle is of length 5 da m. Then area of rectangle is

A. 1500 m^2
B. 1600 m^2
C. 200 m^2
D. 150 m^2
Answer: A

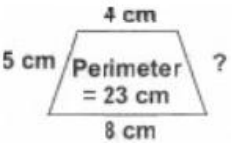
Solution:
Perimeter of square = perimeter of rectangular plot 4x 40 = 2 (5x10+b)
[1 dam = 10m] b = 30
Area = length x breadth = 30 x 50 = 1500 m^2

Q4. The number of paving stones, each measuring 10 dm by 9 dm are required to pave a rectangular veranda 60 meters by 6 meters is

A. 360
B. 400
C. 350
D. 300
Answer: B

Solution:
Number of paving stones = $\frac{\text{area of rectangular veranda}}{\text{area of stone}} = \frac{60X6X10X10}{10X9} = 400$

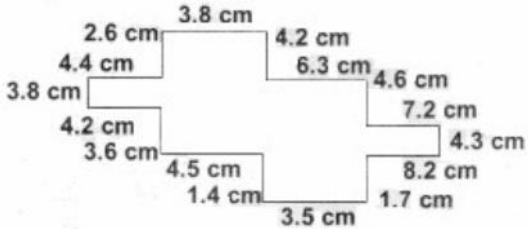
Q5. Find the missing length of the following figure.



A. 6cm
B. 4 cm
C. 2 cm
D. 5 cm
Answer: A

Solution:
5 + 4 + x + 8 = 23 x = 6 cm

Q6. Perimeter of the figure is



A. 68.2 cm
B. 68.1 cm
C. 86.3 cm
D. 68.3 cm
Answer: D

Solution: add all values.

Q7. How many envelopes can be made out of a sheet of paper 324 cm by 172 cm, if each envelope requires a piece of paper of size18 cm by 12 cm?
A. 258
B. 285
C. 528
D. 582
Answer: A

Solution:
No of envelopes = $\frac{\text{area of sheet}}{\text{area of each envelop}}$

Q8. The perimeter of a rectangle is twice the …… of length and breadth of the rectangle.
A. Difference
B. Sum
C. Product
D. Division
Answer: B

Solution: Sum

Q9. If perimeter of a square is tripled, then area will be
A. 4 times
B. 1/4 times
C. 9 times
D. 1/9 times
Answer: C
Solution:
Perimeter tripled which means side is also tripled area will be $(side)^2$ = 9 times.

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Q10. An athlete takes 5 rounds of a rectangular park, 50 m long and 250 dm wide. Then the total distance covered by him is

A. 150 m
B. 75 m
C. 750 m
D. 300 m
Answer: C

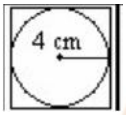
Solution:
Distance covered = 5 x perimeter = 5 x 2 [50 + 25] (250 dm = 25 m)
= 5x 150 = 750 cm

Q11. 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. The area of the park excluding the pond is

A. 784 sq. m
B. 750 sq. m
C. 778 sq. m
D. 708 sq. m
Answer: C

Solution:
Area of park excluding pond = area of park – area of pond
= 28^2 – 3x2
=784- 6
=778 m^2

Q12. A circle is inscribed in a square as shown below. If the radius of the circle is 4cm, then the perimeter of the square is



A. 28 cm
B. 24 cm
C. 32 cm
D. 36 cm
Answer: C

Solution:
Side of square 2x4 = 8 cm
Perimeter = 4 x 8 = 32 cm

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Q13. If the length and breadth of a rectangle are doubled, then its perimeter is
A. Tripled
B. Doubled
C. Halved
D. Four times
Answer: B

Solution:
Length and breadth are doubled perimeter becomes 2 times

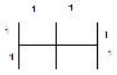
Q14. ……. is expressed in square units.
A. Perimeter
B. Area
C. Square
D. Rectangle
Answer: B

Solution:

Fact

Q15. All the figures below consist of the same four squares of equal size. Which figure has the smallest perimeter?
A. 
B. 
C. 
D. 
Answer: A

Solution:

Write 1 on each line segment on outer side as shown  and count in which case there are minimum 1

Q16. The length and breadth of a rectangular field are 260 m and 130 m respectively, and then its area in hectares is
A. 338
B. 33800
C. 3.8
D. 3.38

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Answer: D

Solution:
Area = 260x130 m^2
1 hectare =10^4 m^2
So area will 3.38 hectare.

Q17. A figure is formed by putting two squares one on the other as shown in the figure. If the length of each side of the two squares is8 cm, then the perimeter of the formed figure is

A. 56 cm
B. 64 cm
C. 32 cm
D. 48 cm
Answer: D

Solution:
Perimeter = 6 x each side

Q18. The area of square is numerically equal to the perimeter of the square, then the side of square is
A. 2
B. 3
C. 4
D. 5
Answer: C

Solution:
$a^2 = 4a$
$a = 4$

Q19. If the area of the rectangle is 16 m^2, then which dimensions may not be possible for rectangle.
A. Length = 8 m, breadth = 2 m
B. Length = 16 m, breadth = 1 m
C. Length = 32 m, breadth = $\frac{1}{2}$ m
D. Length = 8.5 m, breadth = 2 m
Answer: D

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Solution:
8x 2 = 16
16 x 1 = 16
32x ½ = 16
8.5 x 2 = 17 ≠ 16.

Q20. Each side of a square field measures 85 m. The distance covered by a man going around the field 5 times is
A. 1600 m
B. 1800 m
C. 1500 m
D. 1700 m
Answer: D

Solution:
Distance = 5 x perimeter = 5 x 4 x 85 = 1700 m