Bank Job Lecture Sheet

Lecture 11

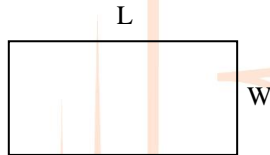**Lecture Contents**

☑ **Geometry (Quadrilateral)**

Geometry (Quadrilateral)

চারটি বাহু দ্বারা সীমাবদ্ধ ক্ষেত্রকে চর্তুভুজ বলে । মোট ৫টি ।

(i) **Rectangle (আয়তক্ষেত্র):** বিপরীত বাহুগুলো সমান ও সমান্তরাল এবং প্রত্যেকটি কোণ 90°, তাকে আয়তক্ষেত্র বলে ।

Area $= L \times W$

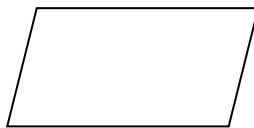Diagonal (কর্ণ) $= \sqrt{L^2 + W^2}$

Perimeter $= 2(L + W)$

Length $= L$
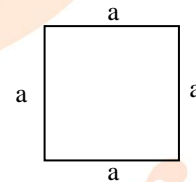
Width $= W$

(ii) **Parallelogram (সামন্তরিক):** বিপরীত বাহুগুলো সমান ও সমান্তরাল এবং প্রত্যেকটি কোণ 90° নয়, তাকে সামন্তরিক বলে ।

Area $=$ Base $\times$ Height

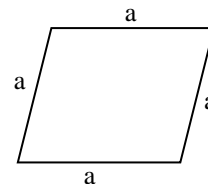(iii) **Square (বর্গক্ষেত্র):** চারটি বাহু সমান এবং প্রত্যেকটি কোণ 90°, তাকে বর্গক্ষেত্র বলে ।

Area $= a \times a = a^2$

Diagonal $= \sqrt{a^2 + a^2} = \sqrt{2a^2} = \sqrt{2}\,a$

Perimeter $= 4a$

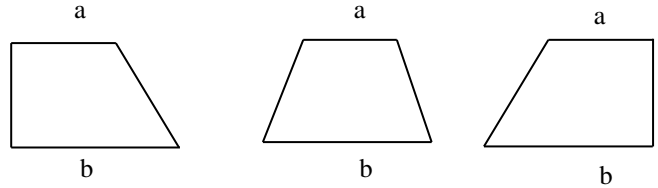(iv) **Rhombus (রম্বস):** চারটি বাহু সমান কিন্তু প্রত্যেকটি কোণ 90° নয়, তাকে Rhombus বলে ।

Area $= \frac{1}{2} \times$ কর্ণদ্বয়ের গুণফল

$= \frac{1}{2} \times$ Product of two diagonals

Perimeter = 4a

Note: রম্বসের কর্ণদ্বয় পরস্পরকে সমকোণে সমদ্বিখন্ডিত করে।

(v) **Trapezium (ট্রাপিজিয়াম):** যে চতুর্ভুজের দুটি বাহু সমান্তরাল তাকে ট্রাপিজিয়াম বলে।

Area $= \frac{1}{2} \times$ সমান্তরাল বাহুদ্বয়ের যোগফল $\times$ উচ্চতা

$= \frac{1}{2} \times (a + b) \times h$

Teacher's Discussion

1. The area of rectangle is 40 cm² and one of its sides is 8 cm long. What will be its perimeter? [Combined 8 Banks Officer- 2022]
A. 26 cm   B. 13 cm   C. 28 cm   D. 20 cm   **Ans: A**

2. If length and width of a rectangular plot were each increased by 20%, what would be the percentage increase in the area of the plot? [Combined 7 Bank Officer (Cash)-2023]
A. 20%   B. 24%   C. 36%   D. 44%   **Ans: d**

3. If a squire region has area n, what is the length of the diagonal of the square in terms of n? [Combined 7 Bank Officer (Cash)-2023]
A. $\sqrt{2\pi}$ B. $\sqrt{\pi}$ C. $2\sqrt{\pi}$ D. 2π **Ans: b**

4. If the base of a parallelogram is 8 and the height is 7 and perimeter is 24, what is the area of the parallelogram? [Combined 5 Banks Officer- 2022]
A. 32   B. 96   C. 66   D. 56   **Ans: D**

5. The perimeter of a rectangle is 20cm. If the length of the rectangle is 6 cm, then the breadth will be- [Combined 9 Bank Senior Officer (General)-2023]
A. 4 cm   B. 6 cm   C. 10 cm   D. 14 cm   **Ans: A**

6. The area of a rhombus is 96 cm² and the length of one of the diagonals is 16 cm. The length of the other diagonal is- [Combined 7 Banks Senior Officer- 2021; Bangladesh Bank AD- 2018]
A. 18   B. 12   C. 9   D. 6   **Ans: B**

7. The width of a rectangle is 20 cm. The diagonal is 8 cm more than the length. Find the length of the rectangle. [Bangladesh Bank AD- 2021]
A. 20   B. 23   C. 22   D. 21   **Ans: D**

8. The perimeter of a rectangle is 104 inches. The width is 6 inches less than 3 times the length. Find the width of the rectangle. [Bangladesh Bank AD- 2021]
A. 13.5 inches   B. 37.5 inches   C. 14.5 inches   D. 15 inches   **Ans: B**

9. The length of a rectangular room is double of its breadth. If the area is 512 square inches, what is the perimeter (in feet)? [Uttara Bank, AO- 2022]
A. 4   B. 6   C. 8   D. 12   **Ans: C**

10. The area of a rectangle R with width 4 ft is equal to the area of a square S, which has a perimeter of 24 ft. The perimeter of the rectangle R, in feet, is-

    A. 9   B. 16   C. 24   D. 26   **Ans: D**

11. A farmer has two rectangular fields. The larger field has twice the length and four times the width of the smaller field. If the smaller field has area K, then the area of the larger field is greater than the area of the smaller field by what amount?

    A. 2K   B. 5K   C. 6K   D. 7K   **Ans: D**

12. If a square region has area n, what is the length of the diagonal of the square in terms of n?

    A. $\sqrt{2n}$ B. $\sqrt{n}$ C. $2\sqrt{n}$ D. 2n   **Ans: A**

13. The side length of a square inscribed in a circle is 2. What is the area of the circle?

    A. π   B. $\sqrt{2\pi}$ C. 2π   D. $2\sqrt{2\pi}$ **Ans: C**

14. The area of the floor of an auditorium is 600 sq. meter. How many unbroken tiles of dimension 10 × 30 cm will be required to cover the floor completely? [Combined 9 Bank Senior Officer (General)-2023]

    A. 200   B. 15000   C. 10000   D. 20000   **Ans: D**

15. Forty tiles of dimensions 1 foot × 2 foot each are required to completely cover a floor. How many titles of dimensions 2 foot × 4 foot each would be required to completely cover the same floor? [Dutch Bangla Bank, PO- 2019]

    A. 10   B. 20   C. 80   D. 160   **Ans: A**

16. Tk. 2496 is spent in the floor repair 30 × 16 ft. Floor. What is the repair cost per square feet? [IFIC Bank TSO- 2019]

    A. 5.20   B. 78.00   C. 12.48   D. 52.00   **Ans: A**

17. A rectangular field will be fenced on three sides leaving a side of 20 feet unconvered. If the area of the field is 680 square feet, how many feet of fencing will be required? [Uttara Bank AO- 2022]

    A. 88   B. 34   C. 40   D. 68   **Ans: A**

18. Rahim wants to cut a rectangular board into identical square pieces. If the board is 18 inches by 30 inches, what is the least number of square pieces he can cut without wasting any of the board? [Global Islami Bank, PO- 2022]

    A. 4   B. 6   C. 9   D. 15   **Ans: D**

17. The diagonal of a rectangle is $\sqrt{41}$ cm and its area is 20 sq. cm. The perimeter of the rectangle must be:

    A. 9cm   B. 18cm   C. 20cm   D. 41cm   **Ans: B**

18. How many bricks, each measuring 25cm x 11.25cm x 6cm, will be needed to build a wall of 8m x 6m x 22.5m?

    A. 5600   B. 6000   C. 640000   D. 7200   **Ans: C**

19. If the length of each of the sides of three-square garden's plots is increased by 50 percent, by what percent is the sum of the areas of the three plots increased? [ICB Asst. Programmer- 2017]

    A. 125%   B. 150%   C. 200%   D. 375%   **Ans: A**

20. It requires Taka 20 for fencing 1 meter. How much will it cost to fence a plot having length of 30 meters and breadth of 10 meters? [Combined 5 Banks Officer- 2022]

    A. Tk. 600   B. Tk. 3000   C. Tk. 6000   D. Tk. 1600   **Ans: D**

21. The area of a rectangular classroom is $x^2 – 25$. Which of the following binomials could represent the length and the width of the room? [Bangladesh Bank AD- 2021]

    A. (x + 5) (x + 5)   B. (x − 5) (x − 5)   C. (x + 5) (x − 5)   D. x(x − 25)   **Ans: C**

22. The breadth of a rectangular field is 60% of its length. If the perimeter of the field is 800 m, what is the area of the field? [Bangladesh Bank Officer- 2016]

     A. 35700 sq. m   B. 40000 sq. m   C. 48000 sq. m   D. 18750 sq. m   **Ans: A**

23. A rectangle is 14 cm long and 10 cm wide. If the length is reduced by x cms and its width is increased also by x cms so as to make it a square, then its area changes by: [Bangladesh Bank AD- 2018]
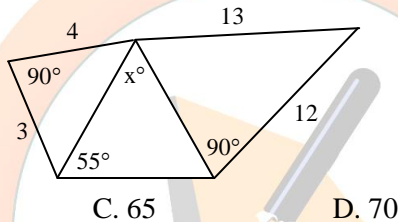
     A. 4   B. 144   C. 12   D. 2   **Ans: A**

24. The diagonal of a square is 2 cm. If a circle is inscribed in that square, what will be the area of that circle?

     A. $\dfrac{\pi}{4}$ cm^2 B. $\dfrac{\pi}{2}$ cm^2 C. $\dfrac{\pi}{8}$ cm^2 D. 4π cm^2 **Ans: B**
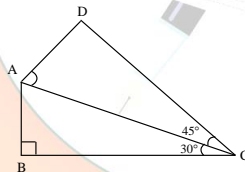
25. In the figure above, what is the value of x?

     A. 55   B. 60   C. 65   D. 70   **Ans: D**

26. In the figure below, if BC = $\sqrt{6}$. What is the value of CD?

     A. 2   B. 4   C. $\sqrt{2}$ D. $2\sqrt{3}$ **Ans: B**

27. What is the exact area (in square inch) of a square whose diagonal is 8 inches?

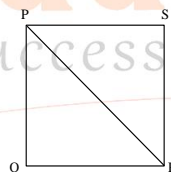   A. $8\sqrt{2}$ B. $16\sqrt{2}$ C. $32\sqrt{2}$ D. 32   **Ans: D**

28. The longest side of an isosceles right triangle measures 16m. What is the perimeter of the triangle?

     A. 32 2 m   B. $32 + 16\sqrt{2}$ m   C. $16 + 16\sqrt{2}$ m   D. $32 + \sqrt{2}$ m   **Ans: C**
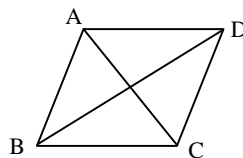
29. If a square region PQRS has an area of 2 square feet, what is the length of its diagonal (PR)?

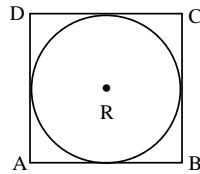   A. 4 feet   B. 2 feet   C. 8 feet   D. $2\sqrt{2}$ feet   **Ans: B**

30. The rhombus ABCD has diagonals intersecting at X, with BC = 13 cm and CX = 5 cm. Calculate the area of the rhombus cm^2

     A. 65   B. 90   C. 120   D. 130   **Ans: C**

31. **If the area of the circle R is a, then the area of the square ABCD in the figure above is:**

   A. πa^2 B. a^2 C. $\dfrac{4a}{\pi}$ D. $\dfrac{4a^2}{\pi}$ **Ans: C**

32. **A rectangular floor that measures 8 meters by 10 meters is to be covered with carpet that each measure 2 meters by 2 meters. If the carpet cost Tk. 12 a piece, what is the total cost to cover the floor?** [Combined 9 Banks Officer- 2022]

   A. Tk. 200   B. Tk. 240   C. Tk. 480   D. Tk. 960   **Ans: B**

33. **The ratio of the length to the width of a rectangular advertising display is approximately 3.3 to 2. If the width of the display is 8 meters, what is the approximate length of the display, in meters?** [Combined 9 Banks Officer- 2022]

   A. 7   B. 11   C. 13   D. 16   **Ans: C**

34. **The breadth of a rectangular field is 5 m. Its length is thrice the breadth. What is the total length of fencing required if the fence is to be built leaving 0.5 m of space from each side?**

   A. 56 m   B. 70 m   C. 44 m   D. 36m   **Ans: D**

35. **The percentage increase in the area of a rectangle, if each of its sides is increased by 20%, is:**
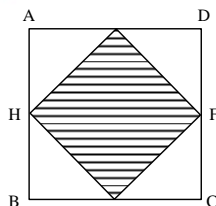
   A. 40%   B. 42%   C. 44%   D. 46%   **Ans: C**

36. **In the below figure, ABCD has area equal to 28. BC is parallel to AD. BA is perpendicular to AD. If BC is 6 and AD is 8 then what is CD?**

   A. $2\sqrt{2}$ B. $2\sqrt{3}$ C. $2\sqrt{5}$ D. 4   **Ans: C**

37. **ABCD is a square with AB = 23 cm. If BE = CF = GD = AH = 9 cm. Find the area of the shaded region**

   A. 169   B. 256   C. 277   D. 312   **Ans: C**

38. **The length and breadth of a square are increased by 40% and 30% respectively. The area of the resulting rectangle exceeds the area of the square by:**

   A. 42   B. 62   C. 82   D. 70   **Ans: C**

Student's Drill

1. The diagonal of a rectangle is $\sqrt{41}$ cm and its area is 20 sq. cm. The perimeter of the rectangle must be:
   A. 9cm   B. 18cm   C. 20cm   D. 41cm   **Ans: B**

2. The difference between the length and breadth of a rectangle is 23 m. If its perimeter is 206 m, then its area is:
   A. 1520m²   B. 2420m²   C. 2480m²   D. 2520m²   **Ans: D**

3. A picture in an art museum is 6 feet wide and 8 feet long. If its frame has a width of 6 inches, what is the ratio of the area of the frame to the area of the picture?
   A. $\frac{5}{16}$ B. $\frac{5}{4}$ C. $\frac{4}{5}$ D. $\frac{5}{12}$ **Ans: A**

4. A certain triangle has sides that are respectively 6, 8 and 10 inches long. A rectangle equal in area to that of the triangle has a width of 3 inches. What is the perimeter of the rectangle?
   A. 11   B. 16   C. 22   D. 24   **Ans: C**

5. The length of a rectangle is 16 feet longer than its breadth. Given that its perimeter is 152 feet, what is the breadth of the rectangle in feet?
   A. 12   B. 24   C. 30   D. 20   **Ans: C**

6. A picture is copied onto a sheet of paper, which measures 8.5 inches by 10 inches. A border of 1.5 inch is left all around. What is the area, in square inches, covered by the picture?
   A. 76   B. 65   C. 38.5   D. 59.5   **Ans: C**

7. The area of a rectangle is 460 square metres. If the length is 15% more than the breadth, what is the breadth of the rectangular field?
   A. 15 metres   B. 26 metres   C. 34.5 metres   D. 20 metres   **Ans: D**

8. The area of a rectangular field is 1,000 square meters. If the length of the field is 40 meters, what is the perimeter of the field in square meters?
   A. 25   B. 135   C. 165   D. 130   **Ans: D**

9. How many squares of 2 inch dimension will be required to cover a rectangle of 8 inch breadth and 6 inch length?
   A. 7   B. 24   C. 12   D. none of these   **Ans: C**

10. The length of a rectangular field is four times its width. If the cost of cultivating the field at Tk. 20 per square meter is Tk. 1,280 then what is the perimeter, in meters, of the rectangular field?
    A. 32   B. 64   C. 20   D. 40   **Ans: D**

11. The sides of a rectangular floor are 16 feet by 24 feet. When a rectangular carpet is placed on the floor, a 4 feet wide strip of floor is exposed on all sides. What is the area of the carpet in sq. ft?
    A. 320   B. 128   C. 352   D. 240   **Ans: B**

12. A rectangular plot 50 feet by 100 feet is surrounded on all sides by a concrete walk 5 feet wide. Find the number of square feet in the surface of the walk.
    A. 160   B. 1600   C. 1000   D. 1500   **Ans: B**

13. The length of a rectangle is 7 more than its width. If the perimeter of the rectangle is the same as the perimeter of a square of side 8.5, what is the length of a diagonal of the rectangle?
    A. 12   B. 13   C. 23   D. 31   **Ans: B**

14. The ratio between the perimeter and the breadth of a rectangular is 5 : 1. If the area of the rectangle is 216 cm, what is the length of the rectangle?
    A. 16 cm   B. 18 cm   C. 20 cm   D. 22 cm   **Ans: B**

15. If the perimeter of a certain rectangle is 76m and its area is 360m², then what is the length of its shortest side?
    A. 18   B. 15   C. 13   D. 10   **Ans: A**

16. The length of a rectangular plot is 20 meters more than its breadth. If the cost of fencing the plot at 26.50 per meter is Tk. 5300, what is the length of the plot in meters?
    A. 50 m   B. 55 m   C. 58 m   D. 60 m   **Ans: D**

17. How many bricks, each measuring 25cm x 11.25cm x 6cm, will be needed to build a wall of 8m x 6m x 22.5m?
    A. 5600   B. 6000   C. 640000   D. 7200   **Ans: C**

18. The difference between the length and the breadth of a blackboard is 8 cm. If the breadth is decreased by 4 cm and the length is increased by 7 cm, the area remains the same. Find the dimension of the blackboard?
    A. 30, 22   B. 28, 20   C. 34, 26   D. 56, 48   **Ans: B**

Solution of Student's Drill

1. Solution:
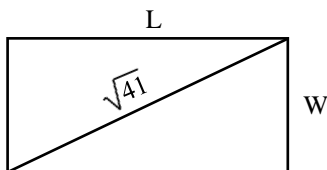
$LW = 20$

$L^2 + W^2 = (\sqrt{41})^2$

$\Rightarrow (L + W)^2 - 2LW = 41$

$\Rightarrow (L + W)^2 = 81$

$\Rightarrow L + W = 9$

$\therefore L - W = \sqrt{(L - W)^2}$

$\qquad = \sqrt{(L + W)^2 - 4LW}$

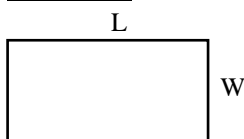$\qquad = \sqrt{9^2 - 4 \times 20}$

$\qquad = \sqrt{1}$

$\therefore L + W = 9$

$\Rightarrow L - W = 1$

$\Rightarrow L = \dfrac{9 + 1}{2} = 5$

$\Rightarrow W = \dfrac{9 - 1}{2} = 4$

$\therefore$ পরিসীমা $= 2(5 + 4) = 18$ **(Ans.)**
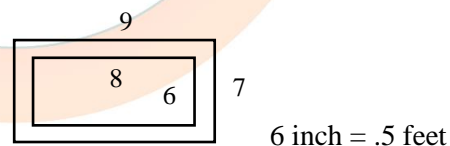
2. Solution:

$L - W = 23$

$2(L + W) = 206$

$\Rightarrow L + W = 103$

$\therefore L = \dfrac{103 - 23}{2} = 63$

$W = \dfrac{103 - 23}{2} = 40$

$LW = 63 \times 40 = 2520$ **(Ans.)**

3. Solution:

6 inch = .5 feet

$\dfrac{\text{Area (Frame)}}{\text{Area (Pic)}} = \dfrac{9 \times 7 - 8 \times 6}{8 \times 6}$

$= \dfrac{63 - 48}{48} = \dfrac{15}{48} = \dfrac{5}{16}$ **(Ans.)**

4. Solution:
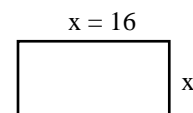

$\Delta = \dfrac{1}{2} \times 6 \times 8 = 24$
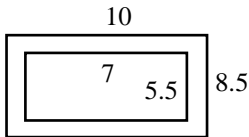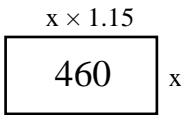
$\therefore P = 2(8 + 3) = 22$ **(Ans.)**

5. Solution:

$2(x + x + 16) = 152$

$\Rightarrow 2x + 16 = 76$
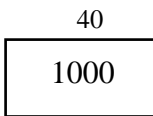
$\Rightarrow 2x = 60 \quad \therefore x = 30$ **(Ans.)**

6. **Solution:**

```
          10
┌───────────────────┐
│ ┌───────────┐     │ 8.5
│ │ 7         │     │
│ │      5.5  │     │
│ └───────────┘     │
└───────────────────┘
```

Area (pic) = $7 \times 5.5 = 38.5$ **(Ans.)**

7. **Solution:**

```
       x × 1.15
┌───────────────┐
│               │
│     460       │ x
│               │
└───────────────┘
```

$1.15x \times x = 460$

$\Rightarrow x^2 = \dfrac{460 \times 100}{1.15} = 400$

$\Rightarrow x = \sqrt{400} = 20$ **(Ans.)**

8. **Solution:**

```
        40
┌───────────────┐
│               │
│     1000      │
│               │
└───────────────┘
```

$\therefore LW = 1000$

$\Rightarrow W = \dfrac{1000}{40} = 25$

$\therefore Peri = 2(40 + 25) = 130$ **(Ans.)**

9. **Solution:**

```
      2                      8
  ┌───────┐          ┌──────────────┐
2 │   4   │ 2      2 │     48       │ 6
  └───────┘          └──────────────┘
      2
```
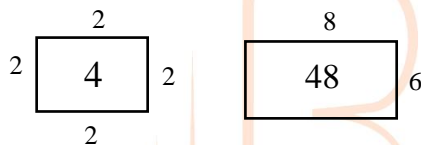
Number of Squares $= \dfrac{48}{4} = 12$ **(Ans.)**

10. **Solution:**

```
        4x
┌───────────────┐
│               │
│               │ x
│               │
└───────────────┘
```
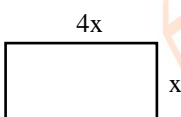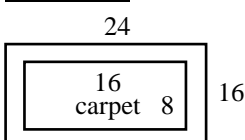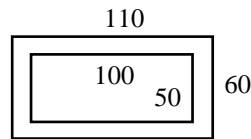
$4x^2 \times 20 = 1280$

$\Rightarrow x^2 = 16 \quad \therefore x = 4$

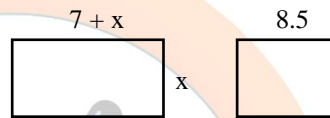$\therefore Peri = 2(16 + 4) = 40$ **(Ans.)**

11. **Solution:**

```
           24
┌─────────────────────┐
│ ┌─────────────────┐ │
│ │  16             │ │ 16
│ │  carpet   8     │ │
│ └─────────────────┘ │
└─────────────────────┘
```

Area (carpet) $= 16 \times 8 = 128$ **(Ans.)**

12. **Solution:**

```
          110
┌───────────────────────┐
│ ┌───────────────┐     │
│ │  100          │     │ 60
│ │         50    │     │
│ └───────────────┘     │
└───────────────────────┘
```

Area of walk $= 110 \times 60 - 100 \times 50$

$= 6600 - 5000$

$= 1600$ **(Ans.)**

13. **Solution:**

```
      7 + x                    8.5
┌─────────────┐          ┌──────────┐
│             │ x        │          │
└─────────────┘          └──────────┘
```

$\therefore 2(7 + x +) = 4 \times 8.5$

$\Rightarrow 7 + 2x = 17$

$\Rightarrow 2x = 10 \quad \therefore x = 5$

```
         12
┌─────────────────┐
│            ╱    │ 5
│   ╱    13       │
└─────────────────┘
         12
```
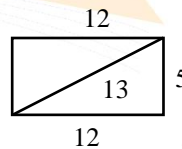
Ans: 13

14. **Solution:**

```
        1.5x
┌───────────────┐
│               │
│               │ x
│               │
└───────────────┘
```
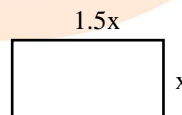
$1.5x \times x = 216$

$\Rightarrow x^2 = \dfrac{216 \times 10}{15}$

$\Rightarrow x^2 = 144 \quad \therefore x = 12$

$\therefore length = 1.5x$

$= 1.5 \times 12 = 18$ **(Ans.)**
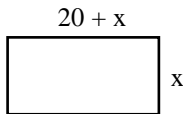
15. **Solution:**

$2(L + W) = 76$

$\Rightarrow L + W = 38$

$\therefore 20 \times \boxed{18} = 360$

Ans: 18

16. Solution:

20 + x

x

$2(20 + x + x) = 200$

$\Rightarrow 20 + 2x = 100$

$\Rightarrow 2x = 80 \Rightarrow x = 40$

$\therefore L = 20 + 40 = 60$

$W = 40;$ Area $= 60 \times 40 = 2400$

$\therefore$ Total cost $= 2400 \times 20$
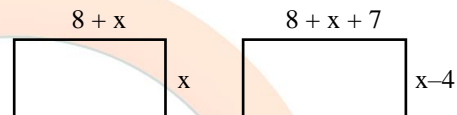
$= 48000$ Tk. **(Ans.)**

17. Solution:

No. of bricks

$= \dfrac{8 \times 100\text{cm} \times 6 \times 100\text{cm} \times 22.5 \times 100\text{cm}}{25\text{cm} \times 11.25 \text{ cm} \times 6\text{cm}}$

$= \dfrac{800 \times 600 \times 2250 \times 100}{25 \times 1125 \times 6}$

$= 640000$ **(Ans.)**

18. Solution:

8 + x

x

8 + x + 7

x–4

$\therefore x \times (8 + x) = (8 + x + 7)(x - 4)$

$\Rightarrow x^2 + 8x = 13x - 60 + x^2 - 4x$

$\Rightarrow 8x = 11x - 60 = 60$

$\therefore 3x = 60 \Rightarrow x = 20$

$\therefore$ Dimension of the blackboard $= 28, 20$ **(Ans.)**

Home Practice

1. **The perimeter of a rectangle is 40. One of the sides is 5. Find the lengths of the other sides.**
   A. 10, 10, 10   B. 5, 10, 10   C. 5, 15, 15   D. 10, 15, 15   **Ans: C**

2. **The length of a plot is 80 m and the breadth are 60 m. A pond was excavated in the plot. If the width of each side of the border around the pond is 4 meters, determine the area of the border of the pond.** [BUP (FBS): 2021-22]
   A. 1000 m²   B. 1056 m²   C. 1028 m²   D. 1065 m²   **Ans: B**

3. **The length of rectangle ABCD is $\dfrac{6}{5}$ th of its breadth. Its perimeter is 132. What is its area?** [BUP (FBS): 2021-22]
   A. 660 m²   B. 2210 m²   C. 2160 m²   D. 1080 m²   **Ans: D**

4. **The measurement of a rectangle is 16 feet by 12 feet. What is the area of the smallest circle that can cover this rectangle entirely so that no part of the rectangle is outside the circle?** [BB Officer-2022]
   A. 10π sq. ft   B. 100π sq. ft   C. 192π sq. ft   D. 128π sq. ft   **Ans: B**

5. **The perimeter of rectangle is 200 meter. The breadth is $\dfrac{3}{7}$ part of the length. What is the length?** [BB Officer- 2022]
   A. 30m   B. 50 m   C. 70 m   D. 60 m   **Ans: C**

6. Rahim wants to cut a rectanular board into identical square pieces. If the board is 18 inches by 30 inches. What is the least number of square pieces he can cut without wasting any of the board? [GIBL, PO- 2022]

A. 4   B. 6   C. 9   D. 15   **Ans: D**

7. What would be the meaure of the perimeter of a square whose area is equal to 256 sq. cm? [Janata Bank Ltd. Officer (Cash)- 2020]

A. 16 cm   B. 36 cm   C. 64 cm   D. 256 cm   **Ans: C**

8. The length of a rectangle is 20% more than its breadth. Find the ratio of the area of teh rectangle to that of the square whose side is equal to the breadth of the rectangle. [Sonali Bank FF Officer-2019]

A. 8 : 9   B. 3 : 2   C. 6 : 5   D. 2 : 1   **Ans: C**

9. The different between the length and the breadth of a blackboard is 8 cm. If the breadth is decreased by 4 cm and the length is increased by 7 cm, the area remains the same. Find the dimensions of the blackboard? [Sonali FF Cash- 2019]

A. 30, 22   B. 28, 20   C. 34, 26   D. 56, 48   **Ans: B**

10. A garden of 100 m length and 60m width has a walkway of 2 m width on every side. What is the area of the garden, in square meter, excluding the walkway? [Combined 3 Banks SO- 2018]

A. 5684   B. 6000   C. 5376   D. 5123   **Ans: C**

11. The length of a rectangular plot is 20 meters more than its breadth. If the cost of fencing the plot Tk. 26.50 per meter is Tk. 5300, what is the length of the plot in meters? [Combined 8 Banks SO-2019]

A. 60   B. 100   C. 75   D. 50   **Ans: A**

12. If the length of rectangle A is one-half the length of rectangle B, and the width of rectangle A is one-half the width of rectangle B, what is the ratio of the area of rectangle A to the area of rectangle B? [BB Officer- 2018]

A. $\frac{1}{4}$ B. $\frac{1}{2}$ C. $\frac{1}{1}$ D. $\frac{2}{1}$ **Ans: A**

13. The area of a rhombus is 54 sq. cm and the length of one of the diagonals is 6 cm. The length of the other diagonal is- [BKB Cash-2017; BB AD- 2018]

A. 18   B. 12   C. 9   D. 6   **Ans: A**

14. The width of a rectangle is 20 cm. The diagonal is 8 cm more than the length. Find the length of the rectangle. [BB AD 2021]

A. 20   B. 23   C. 22   D. 21   **Ans: D**