|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 1) | One side of a rectangular field is 4 metres and its diagonal is 5 metres. The area of the field is | |  | |  |  | | --- | --- | | a) | 1 | | b) | 2 | | c) | 3 | | d) | 4 | | e) | 5 |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 2) | A rectangular lawn whose length is one – half times of its breadth. The area of the lawn is 2/3 hectares. The length of the lawn is | |  | |  |  | | --- | --- | | a) | 1 | | b) | 2 | | c) | 3 | | d) | 4 | | e) | 5 |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 3) | The length of rectangle is increased by 60%. By what percent would the width have to be decreased to maintain the same area? | |  | |  |  | | --- | --- | | a) | 37 1/2% | | b) | 60% | | c) | 75% | | d) | 120% | | e) | None of these |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 4) | A room 4m x 12m is to be carpeted by carpet 2m wide. What is the length of carpet? | |  | |  |  | | --- | --- | | a) | 12m | | b) | 36mm | | c) | 48m | | d) | None of these | | e) | 24m |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 5) | The length of the rectangular is twice its breadth. If its length is decrease by 5 cm and breadth is increasaed by 5cm, the area of reactangle is increased by 75 cm2 therefore the length of the rectangle is: | |  | |  |  | | --- | --- | | a) | 24 cm | | b) | 30cm | | c) | 40cm | | d) | 50cm | | e) | None |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 6) | If the width of a rectangle is 3m less than its length and its perimeter is 30m the area of the rectangle is:(in m2 ) | |  | |  |  | | --- | --- | | a) | 224 | | b) | 108 | | c) | 99 | | d) | 63 | | e) | None of these |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 7) | If the length of a rectangle is increased by 12 1/2 %and the width increased by 6 1/4% ,the area of the rectangle will | |  | |  |  | | --- | --- | | a) | increase by 19.53% | | b) | decrease by 6 1/4% | | c) | increase by 19 3/4% | | d) | increase by 19.92% | | e) | increase by 18 4/5% |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 8) | The areas of a rectangles and a square are same, if length and breadth are 90 m and 80 m. Then find the side of square. | |  | |  |  | | --- | --- | | a) | 1 | | b) | 2 | | c) | 3 | | d) | 4 |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 9) | A room 10m long and 8 m wide is to be designed by square tiles of maximum area. Find the number of square tiles. | |  | |  |  | | --- | --- | | a) | 10 | | b) | 20 | | c) | 25 | | d) | 30 |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 10) | The side of a rhombus is 5m, if one diagonal is 8m. Find the area of the rhombus.( in cm2) | |  | |  |  | | --- | --- | | a) | 24 | | b) | 36 | | c) | 42 | | d) | 48 |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 11) | The area of a rectangle with length twice of breadth is 578 sq metres. What is the length of that rectangle? | |  | |  |  | | --- | --- | | a) | 34m | | b) | 42m | | c) | 38m | | d) | 29m |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 12) | The length of a rectangle, which is 25 cm is equal to the length of a square and the area of the rectangle is 125 cm less than the area of the square. What is the breadth of the rectangle? | |  | |  |  | | --- | --- | | a) | 15 cm | | b) | 20 cm | | c) | 12 cm | | d) | 13 cm |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 13) | The perimeter of a square is 164 meters. What is the area of the square? | |  | |  |  | | --- | --- | | a) | 1089 sq m | | b) | 1764 sq m | | c) | 1661 sq m | | d) | 1681 sq m |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 14) | The sides of a rectangular field of 726 sq m are in the ratio of 3 : 2. Find the sides. | |  | |  |  | | --- | --- | | a) | 33 m, 22 m | | b) | 25 m, 30 m | | c) | 28 m , 32 m | | d) | 36 m, 40 m |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 15) | Area of circle is equal to the area of a rectangle having perimeter of 50 cm and lenth is more than the breadth by 3 cm. What is the diameter of the circle? | |  | |  |  | | --- | --- | | a) | 7cm | | b) | 21cm | | c) | 28cm | | d) | 14cm |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 16) | A rectangular path 100 metres long and 80 metre wide has a travel path of 8 metres in it running around it from inside. Find the area of path.( in m2) | |  | |  |  | | --- | --- | | a) | 2624 | | b) | 2644 | | c) | 2602 | | d) | None |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 17) | A rectangular grass plot is 112 m by 78 m. It has a gravel path 2.5 m wide all round it on the inside. Find the area of the path and the cost of constructing it at Rs. 2 per square metre? | |  | |  |  | | --- | --- | | a) | 1 | | b) | 2 | | c) | 3 | | d) | 4 |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 18) | Find the distance between the two parallel sides of a trapezium if the area of the trapezium is 250 sq. m. and the two parallel sides are equal to 15 m land 10 m respectively. | |  | |  |  | | --- | --- | | a) | 20m | | b) | 25m | | c) | 30m | | d) | 35m |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 19) | The circumference of a circular garden is 1012 m. Find the area, outside the garden, a road of 3.5 m width runs round it. Calculate the area of this road and find the cost of gravelling it at the rate of 32 paise per sq. m. | |  | |  |  | | --- | --- | | a) | 1 | | b) | 2 | | c) | 3 | | d) | 4 |   . | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | 20) | An error 2% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is: | |  | |  |  | | --- | --- | | a) | 2% | | b) | 2.02% | | c) | 4% | | d) | 4.04% |   . | |