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Exercise: Area - General Questions

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- 11. The difference between the length and breadth of a rectangle is 23 m. If its perimeter is 206 m, then its area is:
 - **(A)** 1520 m²
 - **B** 2420 m²
 - **©** 2480 m²
 - **①** 2520 m²

Answer: Option (1)

Explanation:

We have: (I - b) = 23 and 2(I + b) = 206 or (I + b) = 103.

Solving the two equations, we get: I = 63 and b = 40.

 \therefore Area = (/ x b) = (63 × 40) m² = 2520 m².









- 12. The length of a rectangle is halved, while its breadth is tripled. What is the percentage change in area?
 - (A) 25% increase
 - (B) 50% increase
 - © 50% decrease
 - ① 75% decrease

Answer: Option (B)

Explanation:

Let original length = x and original breadth = y.

Original area = xy.

New length = $\frac{x}{2}$.

New breadth = 3y.

New area =
$$\left(\frac{x}{2} \times 3y\right) = \frac{3}{2}xy$$
.

$$\therefore \text{ Increase } \% = \left(\frac{1}{2} \frac{xy}{xy} \times \frac{1}{xy} \times 100\right) \% = 50\%.$$









- 13. The length of a rectangular plot is 20 metres more than its breadth. If the cost of fencing the plot @ 26.50 per metre is Rs. 5300, what is the length of the plot in metres?
 - **(A)** 40
 - **B** 50
 - **©** 120
 - Data inadequate
 - (E) None of these

Answer: Option (E)

Explanation:

Let breadth = x metres.

Then, length = (x + 20) metres.

Perimeter =
$$\left(\frac{5300}{26.50}\right)$$
 m = 200 m.

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

$$\Rightarrow$$
 2x + 20 = 100

$$\Rightarrow 2x = 80$$

$$\Rightarrow x = 40.$$

Hence, length = x + 20 = 60 m.









- 14. A rectangular field is to be fenced on three sides leaving a side of 20 feet uncovered. If the area of the field is 680 sq. feet, how many feet of fencing will be required?
 - **(A)** 34
 - **B** 40
 - **©** 68
 - **(1)** 88

Answer: Option (1)

Explanation:

We have: I = 20 ft and Ib = 680 sq. ft.

So, b = 34 ft.

... Length of fencing = (1 + 2b) = (20 + 68) ft = 88 ft.









- 15. A tank is 25 m long, 12 m wide and 6 m deep. The cost of plastering its walls and bottom at 75 paise per sq. m, is:
 - **(R)** Rs. 456
 - **B** Rs. 458
 - **©** Rs. 558

① Rs. 568

Answer: Option ©

Explanation:

Area to be plastered = $[2(l + b) \times h] + (l \times b)$ = $\{[2(25 + 12) \times 6] + (25 \times 12)\} \text{ m}^2$ = $(444 + 300) \text{ m}^2$ = 744 m^2 .

∴ Cost of plastering = Rs. $\left(744 \times \frac{75}{100}\right)$ = Rs. 558.









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