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**Exercise: Area - General Questions** 

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- 6. The diagonal of the floor of a rectangular closet is  $7\frac{1}{2}$  feet. The shorter side of the closet is  $4\frac{1}{2}$  feet. What is the area of the closet in square feet?
  - (A)  $5\frac{1}{4}$
  - **B**  $13\frac{1}{2}$
  - **©** 27
  - **①** 37

Answer: Option ©

**Explanation:** 

Other side = 
$$\left(\frac{15}{2}\right)^2 - \left(\frac{9}{2}\right)^2$$
 ft  
=  $\frac{225}{4} - \frac{81}{4}$  ft  
=  $\frac{144}{4}$  ft  
= 6 ft.

 $\therefore$  Area of closet = (6 × 4.5) sq. ft = 27 sq. ft.









- 7. A towel, when bleached, was found to have lost 20% of its length and 10% of its breadth. The percentage of decrease in area is:
  - **(A)** 10%
  - **B** 10.08%
  - **©** 20%
  - **(1)** 28%

Answer: Option (1)

### **Explanation:**

Let original length = x and original breadth = y.

Decrease in area = 
$$xy - \left(\frac{80}{100}x \times \frac{90}{100}y\right)$$
  
=  $\left(xy - \frac{18}{25}xy\right)$   
=  $\frac{7}{25}xy$ .

∴ Decrease % = 
$$\left(\frac{7}{25}xy \times \frac{1}{xy} \times 100\right)$$
% = 28%.









8. A man walked diagonally across a square lot. Approximately, what was the percent saved by not walking along the edges?

- **(A)** 20
- **B** 24
- **©** 30
- **(1)** 33

Answer: Option ©

### **Explanation:**

Let the side of the square(ABCD) be x metres.

Then, AB + BC = 2x metres.

$$AC = 2x = (1.41x) \text{ m}.$$

Saving on 2x metres = (0.59x) m.

Saving % =  $\left(\frac{0.59x}{2x} \times 100\right)$ % = 30% (approx.)



- 9. The diagonal of a rectangle is 41 cm and its area is 20 sq. cm. The perimeter of the rectangle must be:
  - **(A)** 9 cm
  - **B** 18 cm
  - © 20 cm
  - **1** 41 cm

Answer: Option (B)

### **Explanation:**

$$1^2 + b^2 = 41$$
.

Also, lb = 20.

$$(/ + b)^2 = (/^2 + b^2) + 2/b = 41 + 40 = 81$$

$$\Rightarrow$$
 ( $/ + b$ ) = 9.

 $\therefore$  Perimeter = 2(/ + b) = 18 cm.









- 10. What is the least number of squares tiles required to pave the floor of a room 15 m 17 cm long and 9 m 2 cm broad?
  - **(R)** 814
  - **B** 820
  - **(c)** 840
  - **(**) 844

**Answer:** Option (A)

## **Explanation:**

Length of largest tile = H.C.F. of 1517 cm and 902 cm = 41 cm.

Area of each tile =  $(41 \times 41)$  cm<sup>2</sup>.

$$Arr$$
 Required number of tiles =  $\left(\frac{1517 \times 902}{41 \times 41}\right)$  = 814.









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