



PERIMETER & AREA

Worksheet 3



SUCCESS IS A CHOICE, NOT A CHANCE

1 2 3 4

1. The cost of papering the four walls of a room is ₹ 480. Each one of the length, breadth and height of another room is double that of this room. What is the cost of papering the walls of the new room?

A. ₹ 3840

B. ₹ 2880

C. ₹ 1920

D. ₹ 960

2. Ashima has three cylindrical containers.

(i) P having radius $2r$ and height h .

(ii) Q having radius $3r$ and height $2h$.

(iii) R having radius $3r$ and height $\frac{h}{3}$.

Arrange the curved surface area of containers in decreasing order.

A. Q, P, R

B. P, R, Q

C. P, Q, R

D. Q, R, P

3. How many cubes of volume 216 cm^3 can be obtained from a cube whose side is 36 cm ?

A. 216

B. 125

C. 729

D. 343

4. How many coins of 1.4 cm in diameter and 0.4 cm thick are to be melted to form a right circular cylinder of height 16 cm and diameter 3.5 cm ?

A. 400

B. 250

C. 180

D. 230

5. Find the area of a square whose diagonals are of length 18 cm .

A. 324 cm^2

B. 162 cm^2

C. 108 cm^2

D. 182 cm^2

6. If the curved surface area of a cylinder is $\pi(2y^2 - 18y + 40)$ and its height is $(y - 4)$, then find its radius.

A. $y - 5$

B. $y + 5$

C. $y + 4$

D. $2y - 10$

7. A carton has dimensions $6 \text{ m} \times 5.5 \text{ m} \times 3 \text{ m}$. How many gift packs can be stored in it, if the dimensions of a gift pack is $60 \text{ cm} \times 22 \text{ cm} \times 30 \text{ cm}$?

A. 1500

B. 2500

C. 1050

D. 3500

8. The area of a rectangular photo frame is $(10a^2 - 83a - 17)$ square units. Find the breadth of the frame, if the length of the frame is $(5a + 1)$ units.

A. $(2a + 17)$ units

B. $(a + 17)$ units

C. $(2a - 17)$ units

D. $(a - 17)$ units



scroll down for Answer key

9. A rectangle of length 44 cm and breadth 2 cm is rolled along its length to form a cylinder. Find the volume of the cylinder.

- A. 504 cm^3 B. 1848 cm^3 C. 1924 cm^3 D. 1644 cm^3
-

10. A floor of a cinema hall 25 m long and 16 m broad is to be paved with square tiles of side 200 cm. Find the number of tiles required.

- A. 112 B. 224 C. 324 D. 100
-



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Answer Key

1. B
2. C
3. D
4. A
5. A
6. B
7. C
8. C
9. A
10. A



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