

D.K.M. COLLEGE FOR WOMEN (AUTONOMOUS)
APTITUDE TEST

AREA – TEST 34

- The percentage increase in the area of a rectangle, if each of its sides is increased by 20% is:
a) 32% b) 34%
c) 42% d) 44%
- The sides of a rectangle are in the ratio of 6: 5 and its area is 1331 sq.m. Find the perimeter of a rectangle.
a) 120 m b) 121 cm
c) 121 m d) None of these
- The sides of a rectangle are in the ratio 4:3 and its area is 972sq.m find the perimeter of the rectangle?
a) 120m b) 122m
c) 124m d) 126m
- 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%
- 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%
- A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. m, then what is the width of the road?
a) 2.91 m b) 3 m
c) 5.82 m d) None of these
- If the length and breadth of a rectangular room are each increased by 1 m, then the area of floor is increased by 21 sq. m. If the length is increased by 1 m and breadth is decreased by 1 m, then the area is decreased by 5 sq. m. The perimeter of the floor is :
a) 30 m b) 32 m
c) 36 m d) 40 m
- A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m³) is:
a) 4830 b) 5120
c) 6420 d) 8960
- In two triangle, the ratio of the areas is 4:3 and that of their heights is 3:4 the ratio of their bases is
a) 16:9 b) 9:16
c) 9:12 d) 16:12
- Area of four walls of a room is 99 m². The length and breadth of the room are 7.5 m and 3.5m respectively. The height of the room is:
a) 4.5 Cm b) 5.5 m
c) 4.5 m d) 5.5 Cm

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tiles is:

- a) 350
- c) 460

- b) 450
- d) 470

22. The radius of the wheel of a vehicle is 70 cm. The wheel makes 10 revolutions in 5 seconds. The speed of the vehicle is

- a) 29.46 km/hr
- c) 36.25 km/hr

- b) 31.68 km/hr
- d) 32.72 km/hr

23. If the length of a rectangle is halved and its breadth is tripled, what is the percentage change in its area?

- a) 25% increase
- c) 50% decrease

- b) 25% decrease
- d) 50% increase

24. Find the surface area of a 10 cm × 4 cm × 3 cm brick

- a) 128 sq. cm
- c) 194 sq. cm

- b) 164 sq. cm
- d) 208 sq. cm

25. A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm³, then the weight of the pipe is:

- a) 3.6 kg
- c) 36 kg

- b) 3.696 kg
- d) 36.9 kg