

## Test on Measurement

### Question 1 (MCQ)

i) A painting in a museum is 45 cm by 110 cm. What are the dimensions in meters?

a) 0.45 m by 1.1 m      b) 4.5 m by 11 m

c) 0.045 m by 0.11 m      d) 0.45 m by 0.11 m

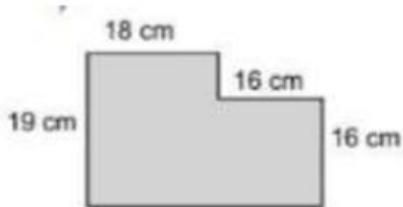
ii) 5 tons is equal to \_\_\_\_\_ hg

a) 5,000 hg      b) 500 hg

c) 50,000 hg      d) 500000 hg

iii) The perimeter of a given shape is:

a) 69 cm



b) 103 cm

c) 108 cm

d) 96 cm

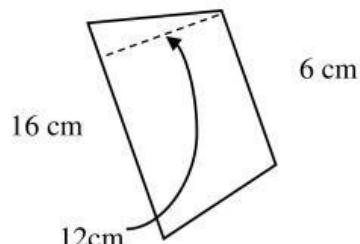
iv) The length of the boundary of a rectangle whose length and breadth are 30 cm and 40 cm is:

a) 140 cm      b) 120 cm

c) 70 cm      d) 60 cm

v) The area of a given trapezoid will be:

a)  $105 \text{ cm}^2$

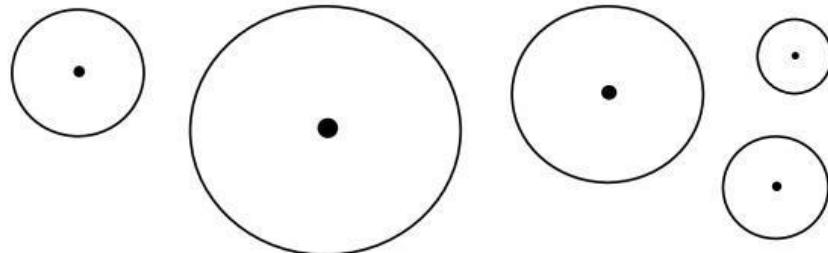


b)  $122 \text{ cm}^2$

c)  $132 \text{ cm}^2$

d)  $142 \text{ cm}^2$

vi) For the given circles, \_\_\_\_\_ will always remain constant.



a) Circumference

b) Radius

c) Diameter

d) Pi ( $\pi$ )

vii) If the radius of circle is 2.5 cm long. The perimeter of quadrant will be:

a) 15.7 cm

b) 7.85 cm

c) 5.233 cm

d) 3.925 cm

### Question 2 Story Problem

i) Rigsel rode 2 kilometers on his bike. His brother Rigden rode 3000 decimeters on his bike. Who rode the farthest and how much farther did they ride (answer in km)?

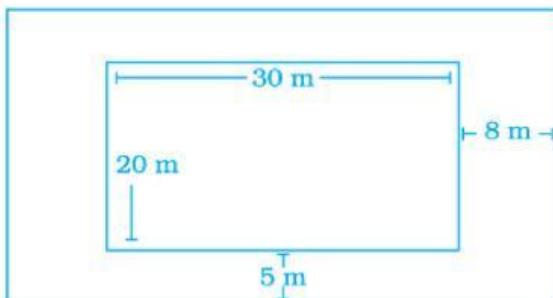
\_\_\_\_\_ rode the farthest

They both rode \_\_\_\_\_ km

ii) Khandro is overweight. He is 105 kilograms. His aim is to lose 500 grams per week. If he manages this, how many weeks will it be until he is 90 kilograms?

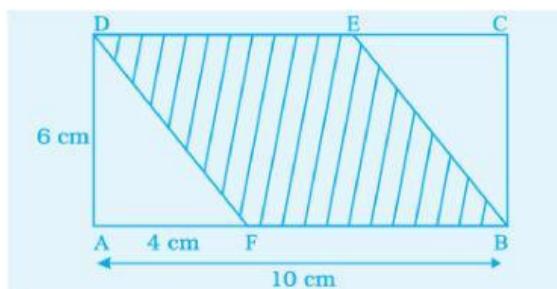
\_\_\_\_\_ weeks

iii) A rectangular shaped swimming pool with dimensions 30 m x 20 m has 5 m wide cemented path along its length and 8 m wide path along its width (as shown in the figure below). Find the cost of cementing the path at the rate of Nu. 200 per  $m^2$ .



The cost will be Nu. \_\_\_\_\_

iv) Find the area of a parallelogram shaped shaded region of the following figure. Also find the area of each triangle.

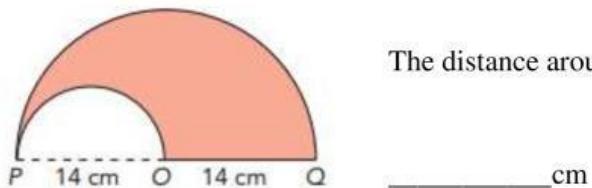


Area of parallelogram is \_\_\_\_\_

Area of triangle I is \_\_\_\_\_

Area of triangle II is \_\_\_\_\_

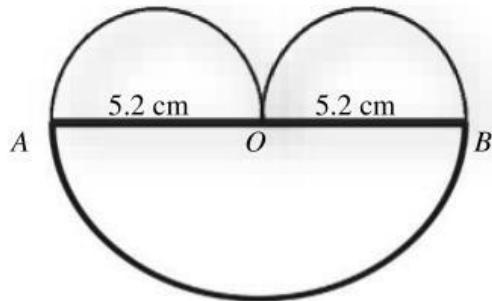
v) A metalworker cuts out a large semicircle with a diameter of 28 centimeters. Then the metalworker cuts a smaller semicircle out of the larger one and removes it. The diameter of the semicircle piece that is removed is 14 centimeters. Find the distance around the shape after the smaller semicircle is removed.



The distance around the shape will be

\_\_\_\_\_ cm

vi) A greeting card is made up of three semicircles.  $O$  is the center of the large semicircle. Righyel wants to decorate the distance around the card with a ribbon. How much ribbon does Righyel need? Round your answer to the nearest cm.



Righyel needs approximately \_\_\_\_\_ cm of ribbon.

*GOOD LUCK!*