

1) Four horses are tethered at four corners of a square plot of side 63 m so that they just cannot reach one another. The ungrazed area is :

a)  $675.5 \text{ m}^2$

b)  $780.6 \text{ m}^2$

c)  $785.8 \text{ m}^2$

d)  $850.5 \text{ m}^2$  (a)

2) The length of a rope by which a cow must be tethered in order that it may be able to graze an area of  $9856 \text{ m}^2$  is :

a) 56 m (a)

b) 64 m

c) 88 m

d) 168 m

3) The length of minute hand of a wall clock is 7 cm. The area swept by it in 30 minutes is :

a)  $147 \text{ cm}^2$

b)  $154 \text{ cm}^2$

c)  $77 \text{ cm}^2$  (a)

d)  $210 \text{ cm}^2$

4) In a circle of radius 21 cm, an arc subtends an angle of  $72^\circ$  at the centre. The length of the arc is :

a) 13.2 cm

b)19.8 cm

c)21.6 cm

d)26.4 cm(a)

5)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

b)31.68 km/hr(a)

c)36.25 km/hr

d)32.72 km/hr

6)The radius of a wheel is 1.4 dm. How many times does it revolve during a journey of 0.66 km ?

a)375

b)750(a)

c)1500

d)3000

7)The radius of a circular wheel is 1.75 m. How many revolutions will it make in travelling 11 km ?

a)10

b)100

c)1000(a)

d)10000

8)A wheel makes 1000 revolutions in covering a distance of 88 km. The diameter of the wheel is :

a)14 m

b)24 m

c)28 m(a)

d)40 m

9)On decreasing the radius of a circle by 10%, what percentage decrease will be there in its area ?

a)10%

b)19%(a)

c)20%

d)36%

10)On increasing the radius of a circle by 75%, what percentage increase will be there in its perimeter ?

a)25%

b)50%

c)75%(a)

d)150%

11)The perimeter of a triangle is 30 cm and the circumference of its incircle is 88 cm. The area of this triangle is :

a)  $70 \text{ cm}^2$

b)  $140 \text{ cm}^2$

c)  $210 \text{ cm}^2$ (a)

d)  $420 \text{ cm}^2$