## **Areas Related to Circles: Worksheet -6**

1. The fadius of a circular wheel is 1.75 m. Number of revolutions will it						
	make in travelling	11 km is		[	]	
	a) 4000	b) 3000	c) 2000	d) 1000		
2. If the radius of a circle is increased by 20% then the percentage of						
	area increasing is			[	]	
	a) 22%	b) 11%	c) 44%	d) 33%		
3.	3. The ratio of the radii of two wheels is 3:4 then the ratio of their					
	circumference is			[ ]	]	
	a) 4:3	b) 2:3	c) 3:4	d) 4:5		
4.	4. The area of a sector who <mark>se radi</mark> us is 14 m is 154 sq.cm. Then its					
	perimeter			]	]	
	a) 20 cm	b) 30 cm	c) 40 cm	d) 50 cm		
5.	The radius of circle is 21 cm and the sector makes an angle of 90° at					
	the centre then the length of the arc is:					
6. A circle and a square have the same perimeter then [						
a) the area of the square is greater b) the areas are equal						
	c) the area of the circle is greater d) none of these					
7. The perimeter of a semicircle is 32.4 cm then the diameter is						
	a) 10 am	b) 10 am	a) 10 6 am	d) 1.4 am	J	
a) 10 cm b) 12 cm c) 12.6 cm d) 14 cm						
8. The radius of the wheel of a bus is 70 cm and the speed of the bus is						
66 kmph. Then the number of revolutions per minute of the wheel is						
	a) 200	b) 100	c) 250	d) 300		



- 9. A horse is tied to a pole fixed at one corner of a  $30m \times 30$  m square field of grass by means of a 10 m long rope. Then the increase in the grazing area if the rope were 20 m long instead of being 10 m long is:
  - a) 253.5 m<sup>2</sup>
- b) 235.5 m<sup>2</sup>
- c) 222.5 m<sup>2</sup>
- d) 280.5 m<sup>2</sup>

