1. The Co-ordinate of one end point of a diameter of a circle are (-3, 2) and the co-ordinate of the center of the circle are (-5, 6). Find the Co-ordinate of the other end of the diameter.

2. A salesman sell a article at 9% loss, if selling price increased by Rs. 12.80 then he will get 7% profit. Find the initial selling price.

3. Ram can do a piece of work in 20 days and Lakhan can complete 33.33% work in 5 days. Find the number of days in which they together can complete whole work, if they work on alternate days and work started by Ram.

4. Find the number of days in which they together can complete whole work, if they work on alternate days and work started by Ram?

5. What is the median of the following numbers?

6. Ram 20 din no. in one circle, if the circumference of the circle is 49 cm, then the area of the circle is

7. If tan (A + B) = \frac{\sqrt{3}}{2} and cos (A – B) = \frac{\sqrt{3}}{2}, then the value of sin 2A + tan 3B is?

8. The ratio between diameter of two circle is 4:1. Find the ratio between their circumference.

9. The ratio between diameter of two circle is 4:1. Find the ratio between their circumferences.

10. A boat take thrice time to cover a certain distance in upstream compare to downstream. Find the speed of boat if speed of current is 7.5 kmph?

11. A boat row to a place at a distance of 135 km and come back to starting point. The total time taken by him.

12. If length of a building is 48 m and its shadow is 32 m, then find the shadow of the building whose length is 144 m?

13. If length of a building is 48 m and its shadow is 32 m, then find the shadow of the building whose length is 144 m?

14. Find the value of \(\tan^2225^\circ + \sec^2330^\circ - \sin^260^\circ + \cos^245^\circ = \) \?

15. Speed of a boat in still water is 9 kmph and speed of stream is 3 kmph. A man rows to a place at a distance of 135 km and come back to starting point. The total time taken by him.

16. If 3p + 7 = \( p^2 + N = 7p + 5 \), what is the value of N?

17. If \( \frac{1}{2} + \frac{3}{4} = \frac{5}{4} \), then what is the value of \( N \)?

18. If \( \tan (A + B) = \frac{\sqrt{3}}{2} \) and \( \cos (A – B) = \frac{\sqrt{3}}{2} \), then \( \sin 2A + \tan 3B \) is?

19. If \( \tan (A + B) = \frac{\sqrt{3}}{2} \) and \( \cos (A – B) = \frac{\sqrt{3}}{2} \), then \( \sin 2A + \tan 3B \) is?

20. If \( \tan (A + B) = \frac{\sqrt{3}}{2} \) and \( \cos (A – B) = \frac{\sqrt{3}}{2} \), then \( \sin 2A + \tan 3B \) is?