**DR. VIRENDRA SWARUP EDUCATION CENTRE ,PANKI,KANPUR**

**CLASS- VIII REVISION SHEET- 6**

**MATHEMATICS**

1. If 5 men or 7 women can earn Rs. 875 per day, how much would 10 men and 5 women earn per day?
2. Renu types 540 words during half an hour. How many words would she type in 8 minutes?
3. In a fort , 300 men had provision for 90 days. After 20 days, 50 men left the fort. How long would the food last at the same rate?
4. A and B can do a piece of work in 12 days; B and C can do it in 15 days while C and A can finish it in 20 days. In how many days will A,B,C finish it, working together? In how many days will each one of them finish it, working alone?
5. A and B can finish a piece of work in 16 days and 12 days respectively. A started the work and worked at it for 2 days .He was then joined by B. Find the total time taken to finish the work.
6. The value of a machine depreciate at the rate of 20% per annum. It was purchased 2 years ago. If its present value is Rs. 40000, for how much was it purchased?
7. The difference between the compound interest and simple interest on a certain sum for 3 years at 10% per annum is Rs. 93. Find the sum.
8. At what rate percent per annum will a sum of Rs. 7500 amount to Rs. 8427 in 2 years, compounded annually?
9. If the compound interest on a certain sum for 2 years at 10% per annum is Rs. 1050. Find the sum.
10. The area of a trapezium is 405 cm2. Its parallel sides are in the ratio 4 : 5 and the distance between them is 18 cm. Find the length of each of the parallel sides.
11. A road roller takes 750 complete revolutions to move once over to level a road. Find the area of the road if the diameter of the road roller is 84 cm and its length is 1 meter.
12. A piece of ductile metal is in the form of cylinder of diameter 1cm and length 11cm. It is drawn into a wire of diameter 1mm. Find the length of the wire so obtained.
13. Amit deposited a certain amount with a leasing company at the rate of interest of 20% compounded annually. At the end of 3 years, he received back Rs. 21,600. Find the amount deposited.
14. The present population of a town is 48000. It is increasing at the rate of 5% every year. What will be the increase in population in next 3 years?
15. The radius and height of a cylinder are in the ratio 7 : 2. If the volume of the cylinder is 8316cm3, find the total surface area of the cylinder.
16. A particular brand of talcum powder is available in two packs, a plastic can with a square base of side 5cm and of height 14cm, or one with a circular base of radius 3.5cm and of height 12 cm. Which of them has greater capacity and by how much?
17. Sunita invested Rs. 20,000 in the bank for 4 years and got back Rs. 29,282 after 4 years. What was the rate of interest per annum payable annually?
18. In a factory, 600 men had provisions for 180 days. After 40 days 100 men left the fort. How long will the remaining food last?
19. If 8 labourers can earn Rs. 9000 in 15 days, how many labourers can earn Rs. 6300 in 7 days?
20. Compute the compound interest on Rs. 3200 for 1 year at 8% per annum when compounded half yearly.