Class Notes

Class: VII	Topic: WORKSHEET (Ch 8, 11 & 12)
Subject: MATHEMATICS	

OBJECTIVE QUESTIONS

1) Ratio of 15 days to 72 hours is
   a) 2:1
   b) 3:1
   c) 4:1
   d) 5:1

2) Out of 40 children in the class, 10 are boys. What is the percentage of boys ?
   a) 10
   b) 40
   c) 4
   d) 25

3) What is 5% of 200 ?
   a) 2
   b) 5
   c) 10
   d) 25

4) The marks in a test decreased from 40 to 30. The percentage decrease is
   a) 20
   b) 25
   c) 10
   d) 40

5) The diameter of a circle is 14 cm. Find its circumference
   a) 44 cm
   b) 22 cm
   c) 11 cm
   d) 55 cm

6) The area of a parallelogram of base 5 cm and height 3.2 cm is
   a) 8 sq cm
   b) 12 sq cm
   c) 16 sq cm
   d) 20 sq cm

7) 1 hectare =
   a) 10 sq m
   b) 100 sq m
   c) 1000 sq m
   d) 10000sq m

8) The value of the expression $-x + 2$ for $x = -2$ is
   a) 1
   b) 2
   c) 3

d) 4

SUBJECTIVE QUESTIONS

1) The teacher announced that 30 % of the 180 students who appeared for the exam, got first grade marks, 25% got second grade marks and rest just passed. Find the number of students who
i) got first grade marks
ii) got second grade marks
iii) just passed

2) In how many years will Rs 14000 earn an interest of Rs. 3500 at 5% interest per annum?

3) Sulabh had bought a scooter for Rs 48000 but had to sell it the next month and suffered a loss of 15%. What price did he sell it?

4) The cost of fencing a rectangular garden is Rs 2800. The cost of fencing per metre is Rs 25. Find
i) the length of the garden if breadth is 24 m.
ii) the area of the garden.

5) The adjacent sides of a parallelogram are 25 cm and 35 cm. The area of the parallelogram is 525 sq cm. Find the difference in the two heights of the parallelogram

6) Two cross roads each of width 5m, run at right angles through the centre of a rectangular park of length 80 m and breadth 65 m and parallel to its sides. Find the area of the roads. Also find the cost of constructing the roads at the rate of Rs 175 per metre square.

7) Simplify the expression
$3(x^2 - 2xy) + 4xy - 5$ And fine it's value when X = 3 and y = -4.

8) Subtract the sum of $2a^2 - 3ab + 4b^2 + 9$ and $3c^2 - 5b^2 + 6abc$ from the sum of $2c^2 - ac$ $5abc$ and $4a^2 + ab - 19$

9) Simplify and evaluate

$$\frac{2^4 \times 3^3 \times 2^3 \times 9}{27 \times 4^3}$$

10) Rashmi obtains 480 marks out of 600. Rajan obtains 560 marks out of 700. Whose performance is better?