

MATHEMATICS WORKSHEET

CLASS VII

Q1. Which of the following are rational numbers?

$-3$  ,  $5/7$  ,  $0$  ,  $5/9$  ,  $-1/2$  ,  $-11$  ,  $-3/6$

Q2. Represent the rational numbers on the number line:

$-3\frac{1}{3}$  ,  $7/4$  ,  $-4\frac{5}{8}$

Q3. By what number should  $3^9$  be multiplied so that the product is 3.

Q4. Simplify and find the value of x:

a)  $[(-31)^3]^0 = (-31)^x$

b)  $(3/4)^7 \times (3/4)^{12} = (3/4)^x$

Q5. Find the value of expression when  $x = -3$

a)  $x^2 + 4x + 4$

b)  $x^2 - 3x + 225$

Q6. Divide 243 into three parts such that half of the first part , one – third of the second part and one – fourth of the third part shall be equal.

Q7. A is 4 years older than B , and half of A's age exceeds one – sixth of B's age by 8 years. Find their ages.

Q8. Aneeta bought a dress for her sister at discount of 25%, the previous marked price is Rs1245. Find the amount she has to pay after the discount.

Q9. Find the simple interest and amount of:

a) Rs 200 for 2 years @ 4%

b) Rs 4000 for  $3\frac{1}{2}$  years @6%

Q10. Draw an equilateral acute triangle , draw a perpendicular from each vertex. Measure the angles of each altitude.