## Worksheet CLASS-IX

## Ch-Number System SUBJECT: MATHEMATICS

1. Express the following numbers in the form of

<u>p</u>:

q

- (a) -25.6875
- (b) 0.621621621...
- (c) 15.712121212...
- Write one rational & one fractional number between 0.515115111.... and 0.535335333....
- 3. Write one example each of two irrational numberswhose:
- (a) Sum is a rationalnumber
- (b) Product is an irrationalnumber
- (c) Difference is an irrationalnumber
- (d) Quotient is a rationalnumber
- 4. Simplify: [{ (625) -1/2} -1/4] 2
- 5.(a) Find the value of x if  $2^{x-7}x 5^{x-4}$ =1250
  - (b) Find the value of x and y if:  $3^{x-1} = 9 & 4^{y+2} = 64$
- 6. Find the value of a & b if  $5 + 2\sqrt{3} = a + b\sqrt{3}$  $7 + 4\sqrt{3}$
- 7. If  $x = 3 + \sqrt{8}$ , then find the value of  $x^2 + 1$ .

b. If two sides of triangle are equal to the corresponding sides of another triangle, then the two triangles are congruent.

triangles are not congruent.

d. None of these

c. If the hypotenuse and one side of a right triangle are equal to the hypotenuse and one side of another right triangle, then the