- 1. 0.03 is equal to
 - a. 3%
 - b. 30%
 - c. 0.3%
 - d. 0.03%
- 2. The percentage of 11 out of 20 is:
 - a. 96%
 - b. 72%
 - c. 55%
 - d. 65%
- 3. The reciprocal of rational number 7/2 is:
 - a. 2/7
 - b. -2/7
 - c. 2/-7
 - d. -2/-7
- 4. The additive inverse of the rational number 4/9 is
 - a. 9/4
 - b. -9/4
 - c. -4/9
 - d. 0
- 5. The value of $-6 \div \left(\frac{18}{9}\right)$ is:
 - a. 51/4
 - b. -3
 - c. 3
 - d. 1/3
- 6. If a parallelogram is $15m^2$ and its base is 10m, then its height is:
 - a. 150m
 - b. 1.5m
 - c. 75m
 - d. 7.5cm
- 7. A circular swimming pool with diameter 35m, has the circumference of :
 - a. 110m
 - b. 55m
 - c. 100m²
 - d. 220m
- 8. -1^{105} is equal to:

a. 1
b1
c. 105
d105
9. The value of the expression a ² + 3a -5 when a=2 is:
a. 5
b. 15
c. – 5
d. – 10
10.In the expression $xy^3 - 6x^2yz^2 + 28xy^3$, the coefficient of $-6x^2yz^2$ is:
a. 6
b. – 6
c. $-6x^2yz^2$
d. 1
11. The value of x in 3^3 X $3^5 = 3^x$ is:
a. 4
b. 6
c. 8
d. 15
12. The value of $(-3)^0$ is:
a1
b. 1
c. 0
d3
13. Rectangle has lines of symmetry
a. 0
b. 1
c. 2 d. 3
14. A square has rotational symmetry of order
a. 1
b. 2
c. 3
d. 4
15. Area of a parallelogram =
a. $\frac{1}{2}$ xbxh
<u>-</u>
b. $2(l+b)$ c. $b \times h$
d. Π r ²
u. 111

CLASS NOTES		
Class: VII	Topic: WORKSHEET – 2	
Subject: MATHEMATICS		

- 1. Last year a club had 25 members. This year it has 30 members. Find the percentage increase in the club.
- 2. What rate will give Rs 280 as interest on a sum of Rs 56,000 in 2 years?
- 3. Gaurav had ½ litre of milk. He used 1/3 litre of milk for making the pudding. How much milk is left with him now?
- 4. Suman wants to distribute a $4\frac{1}{2}$ kg dry fruit pack equally among her three friends. How much dry fruit will each friend get?
- 5. Parul wants to tie a rope twice around a circular swimming pool. The radius of the swimming pool is 21 metres. Find the length of the rope she needs to purchase.
- 6. A parallelogram has sides of 20cm and 15cm. The distance between the 20 cm sides is 18 cm. Find the distance between the 15cm sides.
- 7. Subtract 4a 2b + 7c from 8a + 7b c
- 8. If p = -2, find the value of $-3p^2 + 4p + 7$
- 9. Compare 2.7×10^{12} and 1.5×10^{8}
- 10. Simplify:

a.
$$\frac{2^3 \times 3^4 \times 4}{3 \times 32}$$

a.
$$\frac{3\times 32}{3\times 7^2\times 11^8}$$
b.
$$\frac{3\times 7^2\times 11^8}{21\times 11^3}$$

c.
$$2^{0} \times 3^{0} \times 4^{0}$$

d.
$$(2^3 \times 2)^2$$

- What letters of the English alphabet have reflectional symmetry about
 - i) Vertical mirror
 - ii) Horizontal mirror
 - Both horizontal and vertical mirror iii)
- Name a quadrilateral that has 12.
 - 0 lines of symmetry i)
 - ii) 1 line of symmetry

- iii) 2 lines of symmetry
- 13. Name and draw the shadow that you might get when you throw light on following objects:
 - a) A ball
 - b) A dice
 - c) A birthday cap
 - d) A book
 - e) A cylindrical glass
- 14. What cross section do you get when the following solids are cut by:
 - (a) Vertical cut a solid sphere, an ice cream cone
 - (b) Horizontal cut a dice, a round apple
- 15. Show the terms and factors of the given expression using tree diagram:
 - a. $5x^2y 3y + 4$
 - b. $a^2b^2c 16b^3$