| CLASS NOTES |  |
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| Class: VII | Topic: WORKSHEET - 1 |
| Subject: MATHEMATICS |  |

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 $15 \mathrm{~m}^{2}$ and its base is 10 m , then its height is:
a. 150 m
b. 1.5 m
c. 75 m
d. 7.5 cm
7. A circular swimming pool with diameter 35 m , has the circumference of :
a. 110 m
b. 55 m
c. $100 \mathrm{~m}^{2}$
d. 220 m
8. $-1^{105}$ is equal to:
a. 1
b. -1
c. 105
d. -105
9. The value of the expression $a^{2}+3 a-5$ when $a=2$ is:
a. 5
b. 15
c. -5
d. -10
10. In the expression $x y^{3}-6 x^{2} y z^{2}+28 x y^{3}$, the coefficient of $-6 x^{2} y z^{2}$ is:
a. 6
b. -6
c. $-6 x^{2} y z^{2}$
d. 1
11. The value of $x$ in $3^{3} \times 3^{5}=3^{x}$ is:
a. 4
b. 6
c. 8
d. 15
12. The value of $(-3)^{0}$ is:
a. -1
b. 1
c. 0
d. -3
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 $=$ $\qquad$
a. $\frac{1}{2} \times b \times h$
b. $2(l+b)$
c. $b \times \mathrm{h}$
d. $\Pi r^{2}$

| CLASS NOTES |  |
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| 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 $1 / 2$ 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 20 cm and 15 cm . The distance between the 20 cm sides is 18 cm . Find the distance between the 15 cm sides.
7. Subtract $4 a-2 b+7 c$ from $8 a+7 b-c$
8. If $p=-2$, find the value of $-3 p^{2}+4 p+7$
9. Compare $2.7 \times 10^{12}$ and $1.5 \times 10^{8}$
10. Simplify:
a. $\frac{2^{3} \times 3^{4} \times 4}{3 \times 32}$
b. $\frac{3 \times 7^{2} \times 11^{8}}{21 \times 11^{3}}$
c. $2^{0} \times 3^{0} \times 4^{0}$
d. $\left(2^{3} \times 2\right)^{2}$
11. What letters of the English alphabet have reflectional symmetry about
i) Vertical mirror
ii) Horizontal mirror
iii) Both horizontal and vertical mirror
12. Name a quadrilateral that has
i) 0 lines of symmetry
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. $5 x^{2} y-3 y+4$
b. $a^{2} b^{2} c-16 b^{3}$
