| Class: VIII |
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| Subject: MATHEMATICS |

Topic: WORKSHEET -1(OBJECTIVE)

CHOOSE THE CORRECT OPTION:
Q1. Comparison of parts of a whole may be done by a
(a) bar graph
(b) pie chart
(c) linear graph
(d) line graph

Q2. The probability of getting a multiple of 2 when a dice is rolled is
(a) $\frac{1}{6}$
(b) $\frac{1}{3}$
(c) $\frac{1}{2}$
(d) $\frac{2}{3}$

Q3. The ratio of 10 m to 10 km is:
(a) $\frac{1}{10}$
(b) $\frac{1}{100}$
(c) $\frac{1}{1000}$
(d) None of these

Q4. If marked price of an article is Rs 1,200 and the discount is $12 \%$ then the selling price of the article is
(a) Rs 1,056
(b) Rs 1,344
(c) Rs 1,212
(d) Rs 1,188

Q5. An item marked at Rs. 840 is sold for Rs. 714. The discount \% is:
(a) $10 \%$
(b) $15 \%$
(c) $20 \%$
(d) $25 \%$

Q6. Volume of a rectangular box (cuboid) with length $=2 a b$, breadth $=3 a c$ and height $=2 a c$ is
(a) $12 a^{3} b c^{2}$
(b) $12 a^{3} b c$
(c) $7 a^{3} b c^{2}$
(d) $2 a b+3 a c+2 a c$

Q7. Area of a rectangle with length $4 a b$ and breadth $6 b^{2}$ is
(a) $24 a^{2} b 2$
(b) $24 a b^{3}$
(c) $24 a b^{2}$
(d) $24 a b$

Q8.A cube of side 5 cm is painted on all its faces. If it is sliced into 1 cubic centimeter cubes, how many 1 cubic centimeter cubes will have exactly one of their faces painted?
(a) 27
(b) 42
(c) 54
(d) 142

Q9.The volume of a cube is $64 \mathrm{~cm}^{3}$. Its surface area is
(a) $16 \mathrm{~cm}^{2}$
(b) $64 \mathrm{~cm}^{2}$
(c) $96 \mathrm{~cm}^{2}$
(d) $128 \mathrm{~cm}^{2}$

Q10.Three cubes each of side 10 cm are joined end to end. Find the surface area of the resultant cuboid.
(a) $1400 \mathrm{~cm}^{2}$
(b) $600 \mathrm{~cm}^{2}$
(c) $1000 \mathrm{~cm}^{2}$
(d) $1800 \mathrm{~cm}^{2}$

Q11.The standard form for 0.000064 is
(a) $64 \times 10^{4}$
(b) $64 \times 10^{-4}$
(c) $6.4 \times 10^{5}$
(d) $6.4 \times 10^{-5}$

Q12.The multiplicative inverse of $10^{-100}$ is


| Class Notes |  |
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## CHAPTER -4

Q1. A die is thrown. What is the probability of getting:
(i) a prime number?
(ii) an odd number?
(iii) A number greater than 3 ?

Q2. The number of students admitted in different faculties of a college are given below.

| Faculty | Commerce | Arts | Science | Law | Computer | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of students | 450 | 300 | 1200 | 1000 | 650 | 3600 |

Represent the above information by a pie-chart.
Q3. A bag contains 5 blue and 3 red balls. A ball is drawn at random. What is the probability of drawing a red ball?

## CHAPTER -7

Q4. A fan is marked at Rs 15600 and it is available for Rs 12480 . Find the discount given and discount percent
Q5. There are $\mathbf{2 4 \%}$ of boys in a school. If the number of girls is 456 , find the total number of students in the school.
Q6. A watch was bought for ₹ 2,700 including $8 \%$ VAT. Find its price before the VAT was added.
Q7. Find the amount if ₹ 2,000 is invested for 2 years at $4 \%$ p.a. compounded annually.

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CHAPTER -8
Q8.Add:
    \(8 x^{2}+7 x y-6 y^{2}, 4 x^{2}-3 x y+2 y^{2}\) and \(-4 x^{2}+x y-y^{2}\)
Q9.Subtract:
    \(3 x^{2}-5 x+7\) from \(5 x^{2}-7 x+9\)
Q10. Multiply
    \((2 x-2 y-3)\) and \((x+y+5)\)
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## CHAPTER -9

Q11. A box is in the form of cuboid of dimensions $(80 \times 30 \times 40) \mathrm{cm}$. The base ,the side faces and back faces are to be covered with a coloured paper. Find the area of paper needed.
Q12. A road roller takes 750 complete revolutions to move once over to level a road. Find the area of the road if the diameter of a road roller is 84 cm and length is 1 m .
Q13. If each side of a cube is tripled, how many times will its surface area increase?
Q14. Two cubes are joined end to end. Find the volume and surface area of the resulting cuboid, if each side of the cubes is 6 cm .


