DAV PUBLIC SCHOOL,

Rajabagicha, Cuttack

Class – VI

Mathematics

Percentage and its applications

Time – 2 hrs.   Worksheet (Basic)   Max. Marks - 50

Answer all the following questions.

<u>Section – A</u>   (1 x 5 = 5)

Q 1. Convert 2.8% into decimal form.

Q 2. Find 35% of Rs 600.

Q 3. Find profit if C.P = Rs 18000 & Profit = 20%.

Q 4. What is the simple interest on a sum of Rs 3200 at the rate of 7% per annum for 2 years.

Q 5. Fill in the blanks: C.P = S.P − ....

<u>Section – B</u>   (2 x 5 = 10)

Q 6. Find the simple interest when principal = Rs 12000, Rate of interest = 18% per annum and time = 4 months.

Q 7. If the profit made on a packet of tea is Rs. 6 and the C.P of the packet is Rs 30, then how much is the profit percentage?

Q 8. In a class of 150 students 40% are boys and rest are girls. Find the number of girls and boys in the class.

Q 9. Find the number which is 25% more than 500.

Q 10. A fruit seller bought fruits for Rs 2300 and spent Rs 200 on its transportation. He sold these fruits for Rs 2200. Find its gain or loss.

Section – C   (3 x 5 = 15)

Q 11. Dibya earns Rs 15000 and spends Rs 11000. If she saves the rest of the money, find the percentage of her savings.

Q 12. In a pack of 700 apples, 15% are found rotten. Find the number of good apples.

Q 13. Find the simple interest on Rs 1200 at 6% per annum for 146 days.

Q 14. A shopkeeper bought an article for Rs 2000 and sold it at a loss of 20%. What is the selling price of the article?

Q 15. Find 20% of 15% of Rs 2560.

Section – D   (4 x 5 = 20)

Q 16. Find the simple interest and amount for a sum of Rs 48400 for a period of 3 years at the rate of $4\frac{1}{4}$% per annum.

Q 17. Rahul bought 6 dozen bananas at Rs 25 per dozen. He sold them at Rs 30 per dozen. Find his loss or gain % .

Q 18. A farmer brought a loan of Rs 12500 from a bank at the rate of 4% per annum simple interest. After 5 years he cleared the account by paying Rs 11500 and a cow. Find the price of the cow.

Q 19. Mohan bought a second hand TV for Rs 7500 and spent Rs 500 on its repair. At what price should he sell to make a profit of 25% ?

Q 20. On a particular day the dengue cases in a hospital increased from 200 to 234. What was the percent of increase in this case?

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Mathematics

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Time – 2 hrs.   Worksheet (Standard)   Max. Marks - 50

<u>Section – A</u>   (1 x 5 = 5)

Q 1. Gain or loss percent is always calculated on _____.

Q 2. If 200% of a number is 560, then find 50% of it.

Q 3. If C.P of an article is Rs 225 and loss is Rs 30, then find the S.P.

Q 4. What percent of numbers from 1 to 15 are odd numbers?

Q 5. If S.P of an article is double the C.P, then find the profit percent.

<u>Section – B</u>   (2 x 5 = 10)

Q 6. If x% of 300 + 15% of 960 = 174, then find the value of x.

Q 7. Find the simple interest on Rs 4800 at the rate of 9% per annum for 11 months.

Q 8. A sum of Rs 25000 is deposited in a bank for 219 days at the rate of 6% per annum. Find the interest earned.

Q 9. If 84% of marks obtained by Rajat are 714. What is the total marks ?

Q 10. If C.P of a bike is Rs 51000 and discount on it is 5%, then find the S.P of the bike.

<u>Section – C</u>   (3 x 5 = 15)

Q 11. Bhumika borrowed Rs 18000 from a bank on 15 January 2018 at the rate of 10% per annum. She paid the loan amount on 10th June 2018 and cleared the account. How much money she paid to the bank?

Q 12. Find the simple interest on Rs 2000 for 6 months at the rate of 10 paise per rupee per annum.

Q 13. A vendor buy 3 dozen oranges at Rs 25 per dozen and sales them at 5 for Rs 12. Find his gain percent.

Q 14. Anil had 50 pages to write. By the evening, he had completed 30% of his work. How many pages were left ?

Q 15. A person sold a table at a profit of $6\frac{1}{2}$%. If he had sold it for Rs 1250 more, he would have gained 19%. Find the C.P of the table.

<u>Section – D</u>   (4 x 5 = 20)

Q 16. A rectangular plot whose length and breadth are increased by 10% and 20% respectively. Find the increased percentage area of the rectangular plot.

Q 17. 40 litres of mixture of milk and water contains 25% of water. When 10 litres of water is added, what will be the percentage of milk in the final mixture?

Q 18. A trader mixes 26 kg of rice at Rs 20 per kg with 30 kg of rice of other variety at Rs 36 per kg and sales the mixture at Rs 30 per kg. Find his profit percent.

Q 19. A man buys some goods for Rs 150. If the overhead expenses be 12% of the cost price, then at what price should he sell the goods so as to get a profit of 10%?

Q 20. Find the simple interest and amount for 1 year and 4 months on a sum of Rs 25800 at the rate of 14% per annum.

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Mathematics

Percentage and its applications

Time – 2 hrs.   Worksheet (Advance)   Max. Marks - 50

<u>Section – A</u>   (1 x 5 = 5)

Q 1. If 1.14is expressed as a percent of 1.9, then find its percentage.

Q 2. Half percent, written as a decimal is ....

Q 3. The C.P of a radio is Rs.1500 and it was sold for Rs.1230, find the loss percent.

Q 4. If S.P of an article is doubled, the profit get tripled, find the profit percent.

Q 5. A moneylender gives Rs.60 and collects Rs.66 at the end of 4 months. Find the rate percent.

<u>Section – B</u>   (2 x 5 = 10)

Q 6. If 'y' exceeds 'x' by 20%, then by how much x is less than y ?

Q 7. After decreasing 24% in the price of an article costs Rs.912. find the actual cost of the article.

Q 8. A watch was sold at a loss of 10%. If it was sold for Rs.140 more, there would have been a gain of 4%. What is its cost price?

Q 9. A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20% ?

Q 10. Find the simple interest on a sum of Rs.9600 for 3 months at the rate of 5% per annum.

Section – C   (3 x 5 = 15)

Q 11. If the cost price of 12 pens is equal to the selling price of 8 pens, find the gain percent.

Q 12. By selling a bicycle for Rs.2850, a shopkeeper gains 14%. If the profit is reduced to 8%, then what will be the selling price ?

Q 13. Hari borrowed Rs.12600 from a money lender at 15% per annum simple interest. After 3 years, he paid Rs.7070 and gave a goat to clear off the debt. What is the cost of the goat ?

Q 14. The simple interest on a certain sum for 3 years at 10% per annum is Rs.829.50. find the sum.

Q 15. The population of a town increases every year by 4%. If its present population is 50000, then what will be the population after 2 years ?

Section - D   (4 x 5 = 20)

Q 16. A person sold a horse at a gain of 15%. Had he bought it for 25% less and sold it for Rs.600 less, he would have made a profit of 32%. Find the cost price of the horse.

Q 17. A sum of money put at 11% per annum amounts to Rs.4491 in 2 years 3 months. What will be the amount in 3 years at the same rate ?

Q 18. In an examination 80% candidates passed in English and 85% candidates passed in maths. . If 73% candidates passed in both these subjects, then what percent of candidates failed in both the subjects ?

Q 19. A batsman scored 110 runs which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the wickets ?

Q 20. Rahul sales a bicycle to Raju at a profit of 15%. Raju sales it to Sonu at a profit of 20%. If Sonu pays Rs.3000 for it, then what is the cost price of the bicycle for Rahul ?

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Worksheet (HOTS)

Q 1. A number is increased by 40% and then decreased by 40%. Find the net increase or decrease percent.

Q 2. A student has to score 40% marks to get promotion. If he gets 40 marks and fails by 40 marks, then find the maximum marks set for the examination.

Q 3. A person saves 20% of his monthly salary. If his monthly expenditure is Rs 6000, then find his monthly savings.

Q 4. If the cost price of 20 articles is equal to the selling price of 18 articles, then find the profit percent.

Q 5. Meena purchased 2 fans each at Rs. 1200. She sold one fan at the loss of 5% and other at the gain of 10%. Find the total gain or loss percent.

Q 6. A man purchases a certain number of oranges at 4 a rupee and the same number of oranges at 5 a rupee. He mixes them together and sales them at 4 a rupee. What is his gain or loss percent.

Q 7. Simple interest for the sum of Rs. 1500 is Rs. 30 in 4 years and Rs. 60 in 8 years. Find the rate of simple interest.

Q 8. Suresh borrowed Rs. 800 at 6% per annum and Naresh borrowed Rs. 600 at 10% per annum. After how much time, will they both have equal debts ?

Q 9. Harsha makes a fixed deposit of Rs. 20000 in a bank for a period of 3 years. If the rate of interest be 13% per annum charged half-yearly, what amount will she get after 3 years.

Q 10. If $\frac{2}{3}$ part of an article is sold at 30% profit, $\frac{1}{4}$ part at 16% profit and remaining part at 12% profit and finally, there is a profit of Rs.75, then find the cost price of the article.

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