



ANANDALAYA
SUMMATIVE ASSESSMENT - 1
Class : VIII

Subject: MATHEMATICS
Date : 26/09/2016

M.M: 50
Time: 2 Hour

- Q1. What is the multiplicative inverse of $\frac{-3}{8} \times \frac{-7}{13}$? (1)
- Q2. Find the value of $\sqrt{248 + \sqrt{52 + \sqrt{144}}}$. (1)
- Q3. Choose the number which is not a perfect cube from the following numbers: (1)
(i) 216 (ii) 567 (iii) 125 (iv) 343
- Q4. Find the original price of a washing machine when it was bought for Rs. 13500 including 8% VAT. (1)
- Q5. Find the number of sides of a regular polygon whose exterior angle measures 40° (1)
- Q6. Listed below are the temperature of a city for 10 days: (1)
-6, -8, 0, 3, 0, 2, 1, 5, 4, 4
Find the range of the data.
- Q7. Sum of the ages of Anju and her mother is 65 years. If Anju's present age is 'y' years, then her mother's age 5 years ago is $(60 - y)$ years. State if the statement is true or false. (1)
- Q8. Find four Rational numbers between -1 and 1. (2)
- Q9. The sum of three consecutive numbers is 156. Find the number which is a multiple of 13 out of these. (2)
- Q10. Fill in the blanks: (2)
(i) There are ----- perfect squares between 1 and 100.
(ii) The square root of 24025 will have ----- digits.
(iii) The unit's digit in the square of 1294 is -----.
(iv) The least number by which 125 must be multiplied to make it as a perfect square is -----.
- Q11. Name the property used in the following: (2)
- (i) $\frac{-7}{11} \times \frac{-3}{5} = \frac{-3}{5} \times \frac{-7}{11}$
- (ii) $\frac{-2}{3} \times \left[\frac{3}{4} + \frac{-1}{2} \right] = \left[\frac{-2}{3} \times \frac{3}{4} \right] + \left[\frac{-2}{3} \times \frac{-1}{2} \right]$
- (iii) $\frac{1}{3} + \left[\frac{4}{9} + \frac{-4}{3} \right] = \left[\frac{1}{3} + \frac{4}{9} \right] + \left[\frac{-4}{3} \right]$
- (iv) $\frac{3}{8} \times 1 = 1 \times \frac{3}{8} = \frac{3}{8}$
- Q12. The ages of Rahul and Hamid are in the ratio 5:7. Four years later, the sum of their ages will be 56 years. What are their present ages? (2)

- Q13. Is 9720 is a perfect cube? If not, find the smallest number by which it should be multiplied so that it becomes a perfect cube. (2)
- Q14. A refrigerator is available for Rs. 13,680 after a discount of 10%, find the Marked Price of the refrigerator. (2)
- Q15. The length of a rectangle exceeds its breadth by 4 cm. If the length and breadth are each increased by 3 cm, the area of the new rectangle will be 81 sq. cm more than that of the given rectangle. Find the length and breadth of the rectangle. (3)
- Q16. State whether the following statements are true or false. (3)
- All rectangles are squares.
 - All parallelograms are rhombuses.
 - The sum of the angles of a convex polygon of 8 sides is 1080°
 - A regular polygon of four sides is a rhombus.
 - The sum of the measures of the external angles of any polygon is 360°
 - All squares are rhombuses and also rectangles.
- Q17. A General wishes to draw up his 7500 soldiers in the form of a square. After arranging, he found out that some of them are left out. How many soldiers were left out? (3)
- Q18. Construct a rhombus whose diagonals measure 6.8 cm. and 7.3 cm. (3)
- Q19. Find the value of $\sqrt[3]{175616}$ (3)
- Q20. Roshni buys a wrist watch online for Rs. 3450 and spends Rs. 150 as shipping charge. If she sells the same for Rs. 4000. Find the profit and profit percentage. She donates this profit to a blind school. What value is depicted by her? (3)
- Q21. Find the amount and the compound interest on Rs. 8,000 for $1\frac{1}{2}$ years at 10% per annum, interest being compounded half yearly. (3)
- Q22. Construct a quadrilateral ABCD given that AB = 5.6 cm, BC = 4.1cm, CD= 4.4 cm, AD = 3.3cm and $\angle B = 75^\circ$. Write the steps of construction. (4)
- Q23. Draw a pie – diagram for the following data of expenditure pattern in a family. (4)

Items	Food	Clothing	Rent	Education	Miscellaneous
Expenditure (in Rs)	4000	2000	1500	1500	1000