

SUMMATIVE ASSESSMENT – THIRD TERM

Max. Marks: 60

MATHEMATICS

Std - VII

Time: 2 Hrs

Name of the School: _____	Name of the Student: _____
Place: _____	Roll No.: _____

I. Fill in the blanks:**5 × 1 = 5**

- $8.03 + 8.033 + 8.3 =$ _____.
- $91.453 \times 1000 =$ _____.
- $59.24 \div 10$ _____.
- The SP of a cap is ₹150. The gain is ₹25. The gain % is _____.
- The additional money that the bank pays you is called _____.

II. Choose the correct answer:**5 × 1 = 5**

- The solutions of the inequation $2 < K \leq 6$ are (where K is a natural number) _____.
(a) 3, 4, 5 and 6 (b) 2, 3, 4 and 5 (c) 3, 4, and 5
- The sum of 3 numbers is 12 and the sum another 2 numbers is 13. The mean of all the five numbers is _____.
(a) 6 (b) 5 (c) 4 (d) 10
- 2 is added to each of the numbers 5, 11 and 8. The average of the resulting number is _____.
(a) 8 (b) 10 (c) 14 (d) 12
- 146 days equal _____.
(a) $\frac{1}{2}$ years (b) $\frac{2}{3}$ years (c) $\frac{2}{5}$ years
- The CP is ₹450 and loss % is 10%. The SP is _____.
(a) ₹400 (b) ₹350 (c) ₹405 (d) ₹415

III. Match the following:**5 × 1 = 5**

- | | | |
|----------------------|---|--|
| 11. Profit | – | $\frac{\text{sum of the observations}}{\text{number of observations}}$ |
| 12. $(a + b)^2$ | – | $a^2 - b^2$ |
| 13. Simple interest | – | $a^2 + 2ab + b^2$ |
| 14. $(a + b)(a - b)$ | – | $\frac{P \times R \times T}{100}$ |
| 15. Mean | – | SP – CP |

IV. Write true or false:

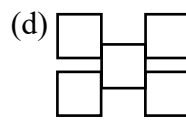
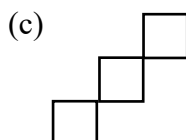
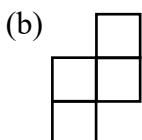
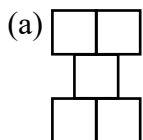
$5 \times 1 = 5$

16. The total money received in the end, that is principal + interest is called the amount.
17. An expression that contains only one term is known as Binomial.
18. If $x - y = 4$ and $x^2 + y^2 = 136$ then $xy = 60$.
19. The turtle is the curser of the logo language.
20. Always “start” is the first step in an algorithm.

V. Answer the following questions (any 8):

$8 \times 3 = 24$

21. Find the difference $73.04 - 21.86$.
22. Find the product 10.1001×10.01 correct to 3 decimal places.
23. ₹6000 is invested at the rate of 5% p.a. Calculate the interest and the amount receivable at the end of 3 years.
24. Evaluate using the above identity $(5x + 3y)^2$.
25. Round the following decimals to the nearest thousandth.
(a) 0.39055 (b) 09.0499
26. Solve: $9x = 37^2 - 8^2$
27. Factorise the following algebraic expressions.
(a) $16m^2 + 88m + 121$ (b) $9v^2 - 49w^2$
28. Which of the following figures has exactly one line of symmetry.



29. Find the mode of the data --- the marks obtained by 12 students of a class in a class test.

VI. Answer the following: (any 2)

$2 \times 5 = 10$

30. Julie had deposited a sum for 7 years at the rate of 6.5% and received ₹1,81,875 at the end of the deposit period. How much money would she have deposited initially?
31. Calculate the following using a suitable identity.
(a) 503×507 (b) 94×102 (c) 3.2×2.7
32. Draw flow charts for the given algorithms
(a) start
(b) accept the area of the parallelogram as AREA
(c) accept the base of the parallelogram as B
(d) calculating the height using the formula $H = \text{AREA} \div B$
(e) display the result H
(f) stop

VII. Practical geometry:

$1 \times 6 = 6$

33. Construct triangle DEF where $\angle DEF = 60^\circ$ $\angle FDE = 90^\circ$ and the side $DE = 6.5\text{cm}$.
(or)
Construct triangle PQR where $PQ = 6.4\text{ cm}$, $QR = 5\text{ cm}$ and $\angle PQR = 80^\circ$.