



Summer Fields School

KAILASH COLONY, NEW DELHI-110048

- Please check that this question paper contains... printed pages.
- Please check that this question paper contains 30..questions.
- Please write down the Serial Number of the question before attempting it.
- Please draw the figure as mention in the question.

FIRST TERM EXAMINATION-2017-18

CLASS VIII

MATHEMTICS

Time : 3 Hours

SET-1

M.M. 80

General Instructions:

Section A Q 1- 5 carry 1 marks each,

Section B Q 6- 13 carry 2 marks each

Section C : Q 14- 22 carry 3 marks each

Section D Q 23- 30 carry 4 marks each.

Section A

1 X 5 = 5

1. The square of an odd number is always _____ in unit place .
2. The cube root of 125 is _____.
3. The value of $(100)^{1/2} + (25)^{1/2}$ is _____.
4. _____ is the extra money paid by the banks or post office on the money deposited with them.
5. The angle of a quadrilateral are 105° , 35° and 70° respectively. The measure of 4th angle is _____.

Section B

2 X 8 = 16

6. Evaluate $(\frac{-5}{9})^{-3} \times (\frac{-5}{9})^2 \div (\frac{9}{5})^{-4}$
7. Find the cube root of 42875
8. Evaluate square root of $\sqrt{23 \frac{394}{729}}$
9. An item is marked at ₹840 is sold for ₹714. What is discount and discount %.
10. Find the measure of each exterior angle of regular polygon of sides 15.
11. Find the square of 36 by using Column method or diagonal Method. *OR by using algebraic method*
12. An electric pole, 14 meters high casts a shadow of 10 meters. Find the height of the tree that casts a shadow 15 meters under similar condition.
13. Rakhi bought a TV set for ₹154000 including tax of 10%. Find the price of a TV set before VAT was added.

Section C

3 X 9 = 27

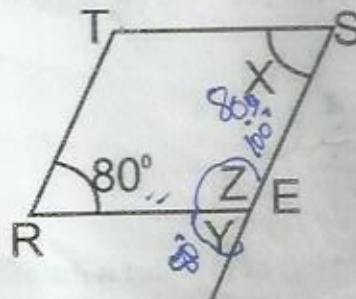
14. What least number should be subtracted from 4568 so that the resulting number becomes a perfect square?
15. Find the smallest number by which 29160 should be divided so that the quotient becomes a perfect cube.

16. Find the value of X
 $25^x \times 5^{-3} = 625^{-2}$
17. Find the Compound interest on ₹10000 at the rate of 10% per annum for 18 months when the interest is calculated half yearly.
18. Find the measure of adjacent angles of parallelogram if the ratio of adjacent angles of parallelogram is 3: 2.
19. Construct the quadrilateral ABCD in which AB = ~~4.5~~^{4.5} cm, BC = 5.5 cm, CD = 4 cm and $\angle B = 50^\circ$, $AD = 5$ cm. Also draw rough diagram.
20. If the weight of 12 sheets of thick paper is 40 grams. How many sheet of the same paper would weight $2\frac{1}{2}$ kg?
21. Construct a rectangle with adjacent sides of lengths 5 cm and 4 cm.
22. a) Express in Standard form of 4050000.
 b) Express in usual form of 7.54×10^{-4}
 c) Find the value of $(3^0 + 5^0 + 6^0)^2$

Section D

4 X 8 = 32

23. The student of Class VIIIth of school donated ₹ 40,401 in all for Prime Ministers National Relief Fund each student donated as much as money as the number of students in the class. Find the number of students in the class.
24. The volume of Cube is 13.824 cubic meters; find the side of the cube.
25. Evaluate by using Law of Exponents:
 $\frac{3^6 \times 10^{-4} \times 625}{5^7 \times 6^{-7}}$
26. Rita bought two fans for ₹1200 each. She sold one at a loss of 5% and other at a profit of 10%. Find the selling price of each, also find the total profit or loss.
27. In given figure REST is a parallelogram. Find the value of X, Y and Z.



28. Construct a quadrilateral MIST where MI = 3.5 cm, IS = 6.5 cm, $\angle M = 75^\circ$, $\angle I = 105^\circ$, $\angle S = 120^\circ$ by using compass & ruler.
29. 6 Pipes are required to fill tank in 1 hour 20 minutes. How long will it take if only 5 pipes of the same type are used?
30. If 100 workers can build a wall in 240 hours. How many workers will be required to the same work in 30 hours?