*Thakur Educational Trust’s (Regd.)*

Thakur Vidya Mandir High School & Junior College

**(ISO 9001:2008 CERTIFIED)**

**ITerminal Exam 2015-2016**

Std. : **VII**  Sub. : **Mathematics**  Marks : **80**

Date : 03/10/2015 Time : 2 hrs. 45 mins.

**Q.1. Solve the following. (Any 10) [10]**

1. Explain Median with the help of figure.
2. Find the square of (– 9.1)
3. Write the base and index of the number
4. Divide
5. Add in vertical arrangement
6. ;
7. Multiply :– 4(y2 – 2y + 7)
8. Draw any quadrilateral and show the following in figure.
9. Points in the interior E, F
10. Points in the exterior N, T
11. Explain adjacent sides of a quadrilateral with the help of figure.
12. Solve
13. Write the biggest 2 digits whole number.
14. Write the following in index form 7 x 7 x 7

**Q.2. Solve the following. (Any 7) [ 14 ]**

1. Find the square root of
2. Write in product form
3. Attendance figures of students of Std.VII of Adarsh Vidyalaya are given below. Find average daily attendance from figure.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Day | Mon | Tue | Wed | Thur | Fri | Sat |
| Attendance | 47 | 45 | 44 | 49 | 48 | 43 |

1. The expenditure incurred for taking 25 students for a picnic is Rs.625. What will be the expenditure for 40 students.
2. The length of a rectangular piece of land is 15m and its width 8m. Find the length of its diagonal.
3. Multiply (m2 – 4m + 6) 2m
4. Explain quadrilateral region with the help of figure.
5. Identify the type of variation in the following example.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. of workers | 12 | 4 | 6 | 30 |
| Days | 20 | 60 | 40 | 8 |

**Q.3. Solve the following. (Any 5) [15]**

1. Draw any . Draw its three medians.
2. If , write the following values
3. (ii) (iii)
4. If 16 bicycles cost Rs.17,600, how much will 9 such bicycles cost ?
5. In , l(KL) = 9 cm, l(LM) = 12 cm, l(KM) = 15 cm. Is a right angled triangle ? If it is name the angle which measures .
6. Construct a right angled triangle XYZ such that m∠Y = , l(YZ) = 4 cm and l(XZ) = 4.5 cm.
7. Write the number 0.00000000567 using powers of 10

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**Q.4. Solve the following. (Any 4) [16]**

1. Add (in vertical arrangement)
3. Solve .
5. If Principal = Rs.5000, Period = 4 years, simple interest = Rs.1600, what is the rate of simple interest ?
6. Simplify using the properties of operations.
7. 78 x 57 + 43 x 78
8. 95 + 741 + 5
9. Find the square root of 7921 by division method.

**Q.5. Solve the following. (Any 5) [25]**

1. Ten litres of milk was shared between John and Saurabh. If Saurabh was given 2 litres more than John, how many litres did each get ?
2. Tulsiram borrowed some money from a bank for 21/2 years at the rate of 10% p.a. To repay his debt he has to pay Rs 10,250 as interest. What was the principal he had borrowed?
3. Simplify i) (6p2 – pq + 5q2) – (3p2 + 2pq – q2)

ii) (2y3 – 5y2 + 9y) + (y2 – 3y + 8)

1. In m∠M = 40°, m∠N = 50°. Which of the following statements is true ?
3. Multiply -
4. Construct

**All the Best**