INTERNATIONAL INDIAN SCHOOL – RIYADH

MATHEMATICS WORKSHEET – [2015 – 2016]

CLASS: VII

1. Simplify (- 50) + (-10) – (-90) + 8

2. What is the probability of getting, when a dice is thrown?

   i. a multiple of 3

   ii. an odd number

   iii. An even number

   iv. A number 3 or 4

   v. a number between 3 and 6

3. Which is greater?

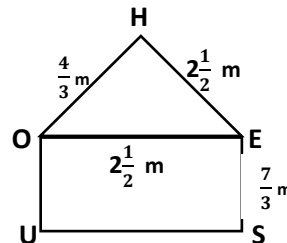 $\frac{3}{4}$ of $\frac{28}{9}$ or $\frac{2}{3}$ of $\frac{21}{8}$

4. Compare using < or >

   $\frac{7}{9}$ ☐ $\frac{10}{12}$

5. Find the perimeter of a

   i. Triangle HOE

   ii. Rectangle OUSE

   Whose perimeter is lesser?

   In the figure: $\frac{4}{3}$ m (side OH), $2\frac{1}{2}$ m (side HE), $2\frac{1}{2}$ m (side OE), $\frac{7}{3}$ m (side ES)

6. Verify; a – (-b) = a + b for the following values of a and b

   a = -20, b = 15

7. Write equations for the following statements and solve:

   i. Eight times a number is 120.

   ii. The sum of a number and 12 is 27.

   iii. 8 less than three times a number.

   iv. Twenty less than a number is 54.

   v. Adding 1 to one third of m is 5.

8. A car covers a distance of 638.55 km in 5.5 litre of petrol. Find the distance covered by it in one litre of petrol.

9. Find the mode and median of the scores.

   4,5,6,7,7,8,9,13,12,8,8,9,8,10,11

10. A box of 600 electric bulbs contains 12 defective bulbs. One bulb is taken out at random from this box. What is the probability that it is a non-defective bulb?

11. Find the area of a rectangle whose length is 36.8cm and breadth is 11.5cm.

12. Construct 2 equations starting with x = 3

13. Find

   i. 158.1 × 100

   ii. 7.9 × 100

   iii. 82.7 × 1000

   iv. 536.4 ÷ 1000

14. Solve the equation: 20 = 2 + 3 [y + 2]

15. Solve the following.

   i. The sum of three consecutive numbers is 21.Find the numbers.

   ii. Radhika's father is three times as old as Radhika.If the sum of their ages is 56 years , what are their ages?

   iii. The length of a rectangle is twice its breadth. If its perimeter is 18cm, find its length and breadth.

16. A bag contains 3 red and 2 blue marbles. A marble is drawn at random. What is the probability of drawing a blue marble.

17. Evaluate:

   i. [(-45) ÷ 9] ÷ 5

   ii. [8 + (-20)] ÷ [(-3) + 5]

18. Express 48 cm in meter and kilometer.

19. Thickness of 12 sheets of paper is 2.4 mm. Find the thickness of 1 sheet of paper.

20. Two different states of India's experts of garments in the years 2000 to 2004 are given in the following table. Draw a double bar graph.

YEAR	2000	2001	2002	2003	2004
KERALA [in crores of Rs]	5	6	8	10	12
KARNATAKA [in crores of Rs]	10	11	9	11	8

21. In a class test, containing 20 questions, 6 marks are awarded for every correct and [-2] for every Incorrect answer and 0 for answer not attempted.

 i. Ramesh gets 9 correct answers and 11 incorrect answers. Find his score.

ii. Syed scored 36 marks though he got 8 correct answers. How many questions had he attempted incorrectly.

22. 2.5 X 0.001 = _____

23. Solve the following equations.

   i. 3x – 14 = 16

  ii. 2 [f – 2] + 3 [4f – 1] = 7

  iii. 4 [2x + 1] = 36

  iv. 3 [2x – 1] + 5 = 14

  v. 2y – [7 – 5y] – 21 = 0

  vi. 3[x - $\frac{1}{3}$] = 2 [2x – 6]

24. _____ X -12 = 132

25. Find the mean of first 5 prime numbers.

26. A certain freezing process requires that room temperature be lowered from 35°C at the rate of 5°C every hour. What will be the room temperature in 10 hours after the process begins?

27. 78 ÷ _____ = - 78

28. Find the product using suitable property.

    - 725 X [22] + [-78] X 725

29. 4 $\frac{3}{7}$ ÷ 4 $\frac{3}{7}$ = _____

30. Write down a pair of integers whose

       i. Sum is 0

ii. Sum is -8

31. The number of hours spend by two students; Devi and Deepthi on different activities on a working day is given below:

Represent it on a double bar graph.

ACTIVITY	DEVI	DEEPTHI
SLEEP	8	7
SCHOOL	6	6.5
HOME WORK	5	6
PLAY	2	2.5
OTHERS	3	2

32. Express 7cm in meter and kilometer.

33. Find the product using suitable property

[-25] X 103

34. How much less is 16.05 kg than 39 kg?

35. Construct 2 equations starting with x = -5

36. Find the perimeter of a triangle with sides $7\frac{1}{6}$cm, $3\frac{2}{3}$ cm and $5\frac{1}{6}$ cm

37. The quotient in 0.07 ÷ 7 = _____

38. Find the mean of the scores

8,6,10,12,1,3,4,4

Find the range of the data.

39. When a die is thrown, what is the probability of getting?

i. 7

ii. 5

40. The height [in cm] of 6 girls in a group are given below

150,141,137,147,138,147

i. What is the height of tallest girl?

ii. What is the range of the data?

iii. What is the mean height of the girls?

41. An elevator descends into a mineshaft at the rate of 6 meters per minute. If it begins to descends from 20 m above the ground.

i. What will be its position after 45 minutes?

ii. How long will it take to reach -400 m?

42. Find the product using suitable property

  − 56 X 102

43. Construct 4 equations starting with x = 3

44. Kathy plants 5 saplings in a row in his garden. The distance between two adjacent saplings is $\frac{5}{6}$ m.

  Find the distance between the first and last sapling.

45. Find

  i. 76.5 ÷ 0.15

  ii. 1.07 X 0.02

46. Find the following using suitable properties.

  i. 625 X [-25] X [-16] X [-4]

  ii. 348 X [-37] + 348 X [-63]

47. The additive inverse of –n is _____.

48. The sum of 3 times a number and 11 is 32. Find the number?

49. Write 305.142 in expanded form.

50. Solve ÷ 54 = 14 + 5 [t − 17]

51. Write three integers between − 8 and 15?

52. Subtract the sum of − 1050 and 813 from −23.

53. Study the following bar graph and answer the questions given below.
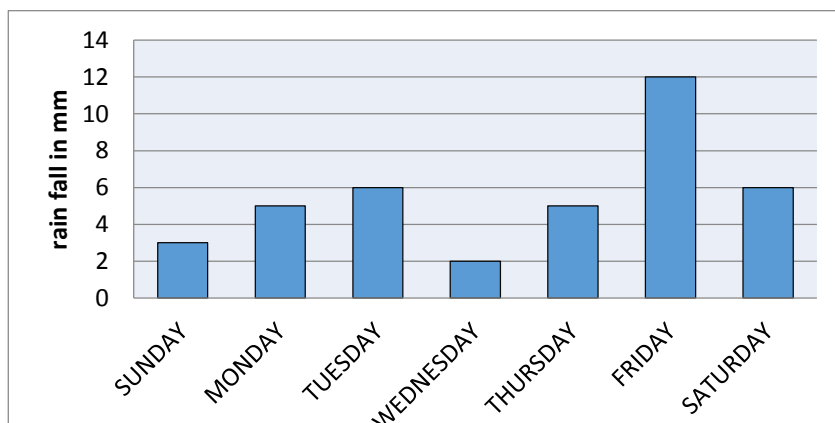
a. The maximum rainfall received is _____ mm on _____.

b. On which days the rainfall was same?

c. The least rainfall received is _____ mm on _____.

54. Write a pair of integers whose sum is -7.

55. Find the product using suitable property

        750 X [-45] + [-750] X 55

56. $2\frac{2}{3}$ + $3\frac{1}{2}$ = _____

57. [-24] ÷ _____ = 8

58. The most common representative value of a group of data is _____

59. The solution of the equation $2q + 6 = 0$ is _____.

60. Identify the property used in the following.

    a. [-5] + [-8] = [-8] + [-5]

    b. 75 + 0 = 75

    c. [13 + 7] + [-9] = 13 + [7 + (-9)]

61. Reciprocal of a mixed fraction is always _____.

62. Mean of the first five natural numbers is _____.

63. 6 cm = _____ km

64. If you multiply [-1] 12 times, the sign of the product will be _____.

65. [-10] ÷ 0 = _____.

66. 5.63 X 1000 = _____.

67. The solution of the equation $5m + 7 = 17$ is _____.

68. In a class of 40 students $\frac{1}{5}$ of the total number of students like to study English. $\frac{2}{5}$ of the total number of students like to study Maths and the remaining students like to study Science?

    a. How many students like to study Maths?

    b. How many students like to study English?

c. What fraction of the total number of students like to study Science?

69. Solve the following equation

    a. $\frac{y}{2} - 3 = 8$

    b. 4p – 20 = 8

70. Find the value of $6\frac{2}{3} \div 13\frac{1}{3}$

71. Verify the following

        17 X [6 + (- 2)] = [17 X 6] + [17 x (- 2)]

72. A certain freezing process requires that room temperature to be lowered from 35°C at the rate of 4°C every hour. What will be the room temperature 10 hours after the process begins.

73. Find the mean , median and mode of the data : 7,9,8,11,8,12,8,9,9

74. In a test +5 marks are given for every correct answers and [-2] marks are given for every incorrect answers. Rayan answered all the questions and scored 30 marks though he got 10 correct answers.

    How many questions has he attempted incorrectly?

75. Verify 25 X [7 + (- 3)] = { 25 X 7] + [25 X (- 3)]

76. Write the property used in the following.

    i. 25 + [-25] = 0

    ii. 13 + [- 12] + [- 7] = 13 + [(- 12) + (- 7)]

77. Put correct sign <,> or = in the box

       47 + [-24]☐– 12 [-47] – [-24] + 12

78. Write two pairs of integers [a,b] such that a ÷ b = [-5]

79. Find the area of a rectangular field whose length and breadth is 15.7 m and 11.8 m respectively.

80. Write 12.034 in expanded form.

81. The number of children in the families of 20 students in class VII are –

        2,3,3,1,4,5,3,3,2,1,1,4,3,2,2,4,3,5,6,5

Organize this data in a tabular form.

82. [6 + (- 12)] ÷ [(- 18) + 12]. Find the value.

83. Write a negative integer and a positive integer whose sum is -7.

84. Provide the number in the box such that $\frac{3}{4} \times \boxed{} = \frac{15}{40}$

   ii. The simplest form of the number obtained in $\boxed{}$ is _____.

85. Use the sign <,> or = in the box

   49 + [-34] − 15 $\boxed{}$ 26 + [-42] − [- 26]

86. Solve 2 [x + 5] = 18

87. Find:

   i. 7.9 ÷ 1000

   ii. 0.9 X 100

88. Solve $\frac{12x}{5}$ = 6

89. The ages of 10 teachers of a school are:

   32,41,28,54,35,26,23,33,38,40

   i. What is the mean age of these ages?

   ii. What is the range of the ages of the teachers?

90. Solve: 4 [x − 3] = 24

91. What will be the sign of the product if we multiply?

   i. 8 negative integers and 3 positive integers.

   ii. 5 negative integers and 4 positive integers.

92. Construct two equations starting with x = 4

93. The _____ of a set of observations is the observation that occurs most often.

94. The probability of getting a head when a coin is tossed is _____.

95. A batsman scored the following number of runs in six innings – 36, 35, 50, 46, 60, 55.

   Calculate the mean runs scored by him in an inning.

96. Solve: 9 + 3 [x − 1] = 27

97. Draw a number line and represent $\frac{-7}{4}$ and $\frac{3}{4}$

98. Construct two equations starting with x = -1

99. The greatest negative integer is _____

100. Find the following

    i. $3\frac{5}{8}$ - $2\frac{3}{4}$

    ii. 30.94 ÷ 7

101. $\frac{5}{6}$ of 18 = _____

102. Find the product using suitable properties

[-48] X 26 + [-48] X [-36]

103. 5 cm = _____ km

104. Find the area of a rectangle whose length is 11.5 m and breadth is 3.3 m.

105. The difference between 28 kg and 42.6 kg is _____.

106. Sale of English and Hindi books in the years 1995,1996, 1997 and 1998 are given below.

YEARS	1995	1996	1997	1998
ENGLISH	350	400	450	620
HINDI	500	530	600	650

 i. Draw a double bar graph choosing and appropriate scale.

 ii. In which year was the difference in the sale of the two language books least?

  iii. In which year the difference in the sale of two language books more?

107. $\frac{1}{2}$ of 32 is _____

108. 61.29 ÷ 1000

109. Write a pair of negative integers whose difference is 10.

110. In a class test containing 10 questions, 5 marks are awarded for every correct answer [-2] marks are awarded for every incorrect answer and 0 for questions not attempted.

    i. Lena gets four correct and six incorrect answers. What is her score?

    ii. Alan gets five incorrect answers and five incorrect answers. What is his score?