DR. M.K.K ARYA MODEL SCHOOL

HOLIDAYS HOMEWORK

CLASS – VII

SUBJECT – MATHEMATICS

1. Solve the assignments in a separate notebook.
2. Solve the following Worksheets
   - Worksheet – 1 "Integers"
   - Worksheet – 2 "Integers"
   - Worksheet – 3 "Fractions"
   - Worksheet – 4 "Decimals"
3. Perform the following activities in lab manual:
   - Activity 1 – To multiply two fractions by activity method.
   - Activity 2 – To find the product, multiplication and subtraction of Integers on Number Line.

CHAPTER:- 1(INTEGERS)

1. Arrange the following integers in descending order: -6, -11, 12, -32, -23, 14, 0, 32, 16, -19, -18
2. Find the additive inverse of (a) - 17   (b) 10
3. The multiplicative Identity of integers is _____.
4. The sum of two integers is -6 .If one of them is 2 then the other is _____.
5. Write down a pair of integers whose (a) sum is -7   (b)difference is -5
6. Add the integers: (i) 400, -31, -17
                      (ii) -613, -421, 700
7. Find the product using suitable properties:- (a)-17 x(- 29) (b) 26x(-48)+(-48)x(-36)   (c) 625x(-35)+(-625)x65
    (d) 15x(-25)x(-4)x(-10)
8. Subtract the first integer from the second: (i) -3, 6   (ii) -27, -54
9. Find the value of : (i) -37-(-15)-2   (ii) 16-[14-(-2)-(-6)]   (iii)[(6)+5]÷[(-2)+1]   (iv) (-31)÷[(-30)+(-1)]
    (v) 13÷[(-2)+1]
10. In a Quiz, positive marks are given for correct answer and negative marks are given for incorrect answers. If Rashi's score in six rounds were 30,-10,-12, -5, -15, 20. What was her score at the end?
11. The temperature of a certain place fell by 2°C each day for a week. What is the change of temperature over the whole week?
12. The product of two numbers is -180. If one of the numbers is 12, find the other number.
13. In a class test containing 15 questions; 4 marks are given for every correct answer and (-2) marks are given for every incorrect answer (i) Gurpreet attempt all questions but only 9 of answers are correct. what is her total score? (ii) one of our friends gets only 5 answers correct. What will be her score?
14. A cement company earns a profit of ₹ 8 per bag of white cement sold and a loss of ₹ 5 per bag of grey cement sold
(i) the company sells 3000 bags of white cement and 5000 bags of grey cement in a month. What is its profit or loss?
(ii) what is the number of white cement bags it must sell to have neither profit nor loss, if the number of grey cement sold is 6400 bags.
15. suppose we represent the distance above the ground by a positive integer and that below the ground by a negative integer then answer the following   (i) An elevator descends into a mine shaft at the rate of 5 metre per minute what will be its position after 1 hour?
    (ii) If it begins to descend from 15 metre above the ground what will be its position after 45 minutes?
16. A shopkeeper earns a profit of ₹ 1 by selling one pen and incurs a loss of 40 paise per pencil while selling pencils of her old stock .
(i) In a particular month she incurs a loss of ₹5 . In this period she sold 45 pens. How many pencils did she sell in this period?
(ii) In the next month she earns neither profit nor loss. If she sold 70 pens, how many pencils did she sell?

17. The temperature at 12 noon was 10 degree Celsius above zero. If it decreases at the rate of 2 degree Celsius per hour until midnight, at what time would the temperature be 8 degree Celsius below zero? What would be the temperature at midnight?

18. An elevator descends into a mine shaft at the rate of 6 metre per minute. If the distance starts from 10 metre above the ground level ,how long will it take to reach - 350m.

19. A plane is flying at the height of 5000 above the sea level at a particular point it is exactly above a submarine floating 1200 below the sea level what is the vertical distance between them?

20. . Find each of the following products   (a) 9x(-3)x(-6)   (b) (-3)x(-6)x(-2)x(-6)
    (c) (-316)x(-1)

CHAPTER:- 2(FRACTIONS AND DECIMALS)

1. 1. Add (a) $2\frac{1}{3} + 1\frac{1}{2}$ (b) $\frac{1}{2} - \frac{1}{4} + \frac{5}{8}$ (c) $\frac{3}{7} + \frac{1}{21} - \frac{1}{14}$ (d) $\frac{9}{11} - \frac{4}{15}$

2. 2. Find the value of (a) $4 \times 6\frac{1}{3}$ (b) $\frac{3}{4}$ of 36   (c) $\frac{2}{3} \times \frac{15}{24}$ (d) $\frac{5}{8}$ of $1\frac{1}{2}$ (e) $3\frac{1}{2} \div 4$ (f) $\frac{2}{5} \div \frac{1}{2}$.

3. Arrange in ascending order $\frac{2}{9}, \frac{2}{3}, \frac{8}{21}$

4. Write five equivalent fractions of $\frac{3}{5}$.

5. Rahul purchased $8\frac{1}{2}kg$ apples and $4\frac{3}{4}kg$ oranges. What is the total weight of fruits purchased by him?

6. Sonu finished colouring a picture in $\frac{2}{7}$ hour. Rohan finished colouring picture in $\frac{4}{5}$ hour. Who worked longer? By what fraction was it longer?

7. If 6 people equally share a bill of Rs.98.10, how many should each pay?

8. Suman studies 45 into 2 by 3 hours daily she devote devotes 2 is to 4 by 5 hours of a time for science and mathematics how much time does she is the vote for the other subjects?

9. In a class of 40 students 1 by 5 of the total number of students like to study English 2 by 5 of the total number of number like to study mathematics and the remaining students like to study science. (i) How many student like to study English? (ii) How many students like to study mathematics?   (iii)what fraction of the total number of students like to study science?

10. Express as rupees using decimals (i) 7 rupees 7 paise (ii) 7 rupees 77 paise   (iii) 235 paise

11. Radha bought 5 kg 300 g apples and 3 kg 250 g mangoes. Sarla bought 4 kg 800 g oranges and 4 kg 15 g bananas. who bought more fruits? By how much?

12. The sides of an equilateral triangle is 5.3 cm. Find its perimeter.

13. Find the average of 4.2, 3.8 and 7.6.

14. A vehicle covers a distance of 43.2 km in 2.4 litres of petrol. How much distance will it cover in one litre of petrol?

15. Find the reciprocal of the following:- (a) $\frac{12}{7}$ (b) $\frac{1}{11}$ (c) 43

16. Write the following decimals in expanded form (i)200.03 (ii) 3.074   (iii) 2.56

17. The length of a rectangle is 7.1 cm and the and its breadth is 2.5 cm. What is the area of the rectangle?

18.
    Find (i) $3.25 \div 0.5$ (ii) $33.1 \div 10$ (iii) 650 $1.2 \div 4$ (iv) $5.6 \div 1.4$ (v) 31.1×100 (vi) 10.05×1.05
    (vii) 200.11×4

19. How much less is 38km than 42.6 kilometer?