



WORK SHEET-2
GRADE: 7
FIRST TERM EXAM, 2019-20
SUBJECT: MATHEMATICS

- Solve the following
 - $12 \div \frac{3}{4}$
 - $3 \div 2\frac{1}{3}$
 - $\frac{7}{3} \div 2$
 - $4\frac{1}{3} \div 3$
 - $4\frac{3}{7} \div 7$
- Solve the following expressions
 - $(2\frac{1}{5} - 1\frac{2}{15}) \div \frac{2}{3}$
 - $\frac{1}{9} \times 2\frac{2}{3} + 2\frac{2}{3} \div \frac{1}{3}$
- Sonali has $\frac{6}{13}$ meters of fabric. She cuts into 4 pieces. How many meters will each Pieces be?
- Solve
 - $16\frac{2}{9} \div 2\frac{2}{3}$
 - $1\frac{2}{7} \div \frac{12}{3}$
- How much is less is 28 km than 42.6 km
- Express
 - 7cm in meter and kilometer.
 - 75 mm in cm, m, km.
- A builder uses bricks that are 7,23cm high. He builds a wall that is 42 bricks high. But the top 9 bricks fall down. How much high is the remaining wall?
- Use long division
 - $6.23 \div 2$
 - $4.5 \div 0.6$
 - $2 \div 0.16$
- There are 125 seats in the balcony of a theatre. If this is $\frac{1}{5}$ of the total total seats, what is the total seats in the theatre?
- Each side of a regular polygon is 3.5 cm in length. The perimeter of the polygon is 24.5 cm .how many sides does the polygon have?
- The ages in years of 10 teachers of a school are: 32,41,28,54,35,26,23,33,38,40
 - what is the age of the oldest teacher and that of youngest teacher?
 - what is the range of the ages of teacher?
 - what is the mean age of these teachers?
- Find the mean of first five natural numbers?
- Find the mean of first five prime numbers?
- The scores in mathematics test (out of 25) of 15 students is as follows:
19,25,23,20,9,20,15,10,5,16,25,20,24,12,20
Find the mode and median of this data. Are they same?
- Find the mode and median of the data: 13, 16, 12, 14, 19, 12, 14, 13, and 14.
- For what value of x the mode of following data is 15?
12,13,17,16,15,16,15,15,16, $x+10$.

17. Observe the following data:

class	Total students	Number of students present on that day
VI	90	81
VII	82	76
VIII	95	91
IX	70	65
X	63	62

- Draw a double bar graph choosing appropriate scale. What do you infer from the bar graph?
- Which class has the maximum number of students?
- In which class, the difference of total students and number of students present is minimum?
- Find the ratio of number of students present to the total number of students of class IX?
- What percent of class VI students were absent?

18. Write an equation for each of the following statements:

- a number divided by 5 gives 3.
- Twice the sum of x and 3 is 11.
- Sum of three times of x and 5 is 14.
- 20 less than a number gives 46.

19. Express the following in words:

- $3p = 12$
- $x + 9 = 15$
- $\frac{x}{3} = 6$
- $\frac{1}{2} - m = 3$

20. Solve the following equations:

(i). $5(x + 3) = 25$ (ii). $\frac{x-5}{2} = 6$

(iii). $\frac{x}{5} + 3 = 2$ (iv). $3x + 5 = 8$

21. The product of thrice a number and 5 is 60. Find the number.

22. The angles of a triangle are in the ratio 1:2:6. Find the angles

[Hint: sum of angles of a triangle = 180°]

23. Two complementary angles differ by 20° . Find the angles.

24. If 45 is added to half a number, the result is triple the number. Find the number.

25. 1 subtracted from one-third of a number gives 1. Find the number.

=====BEST OF LUCK=====