 **AL KHOZAMA INTERNATIONAL SCHOOL,DAMMAM**

Affiliated to CBSE – New Delhi, No:5730019

**WORK SHEET-2**

**GRADE: 7**

**FIRST TERM EXAM, 2019-20**

SUBJECT: MATHEMATICS

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1. Solve the following

$$a). 12÷\frac{3}{4} b). 3÷2\frac{1}{3} c).\frac{7}{3} ÷2 d).4\frac{1}{3}÷3 e). 4\frac{3}{7}÷7$$

1. Solve the following expressions

a)$\left(2\frac{1}{5}-1\frac{2}{15}\right)÷\frac{2 }{3} b). \frac{1}{9}×2\frac{2}{3}+2\frac{2}{3} ÷ \frac{1}{3}$

3. Sonali has $\frac{6}{13}$ meters of fabric. She cuts into 4 pieces. How many meters will each

Pieces be?

4.Solve

 a). $16\frac{2}{9} ÷2\frac{2}{3} b). 1\frac{2}{7} ÷ \frac{12}{3}$

5. How much is less is 28 km than 42.6 km

6. Express

a). 7cm in meter and kilometer. B). 75 mm in cm, m, km.

7. 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?

8. Use long division

a). 6.23 $÷2$ b). 4.5 $÷0.6$ c). 2 $÷$ 0.16

 9. 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?

10. 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?

11. The ages in years of 10 teachers of a school are: 32,41,28,54,35,26,23,33,38,40

a). what is the age of the oldest teacher and that of youngest teacher?

 b). what is the range of the ages of teacher?

 c). what is the mean age of these teachers?

12. Find the mean of first five natural numbers?

13. Find the mean of first five prime numbers?

14. 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?

15. Find the mode and median of the data: 13, 16, 12, 14, 19, 12, 14, 13, and 14.

16. 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 |

a). Draw a double bar graph choosing appropriate scale. What do u infer from the bar graph?

 b). which class has the maximum number of students?

 c). In which class, the difference of total students and number of students present is

 minimum?

 d). Find the ratio of number of students present to the total number of students of class

 ix?

 e). what percent of class vi students were absent?

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

 (i). a number divided by 5 gives 3.

 (ii). Twice the sum of x and 3 is 11.

 (iii). Sum of three times of x and 5 is 14.

 (iv). 20 less than a number gives 46.

19. Express the following in words:

 (i). $3p=12 \left(ii\right). x+9=15$

 (iii). $\frac{x}{3}=6 \left(iv\right). \frac{1}{2}-m=3.$

20. Solve the following equations:

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

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

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