GIRLS' HIGH SCHOOL & COLLEGE,PRAYAGRAJ
WORKSHEET-03
SESSION:2020-21
CLASS- 6 A-F
SUBJECT- MATHEMATICS

NOTE-Parents please ensure that the student revise the basic concepts of the chapter Decimal from the previous class book, they can also take help from the internet or the link given below

Link -https://youtu.be/mAnfRhl2ISc

CHAPTER- DECIMAL FRACTION

With the help of examples given below, solve the questions:

EXAMPLE - 1

ADD- 2.7 , 35.82 and 140.052

```
      2.700
     35.820
 +1  40.052
 _____
   1 7 8 . 5 7 2 (Ans)
```

SUBTRACT- 72.385 from 85.4

```
     85.400
   - 72.385
 _____
   1 3 . 0 1 5 (Ans)
```

Make the decimal places same in both the cases.
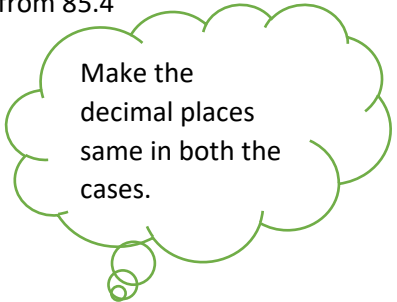
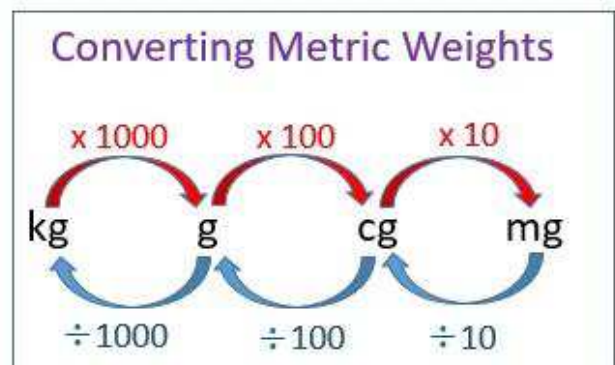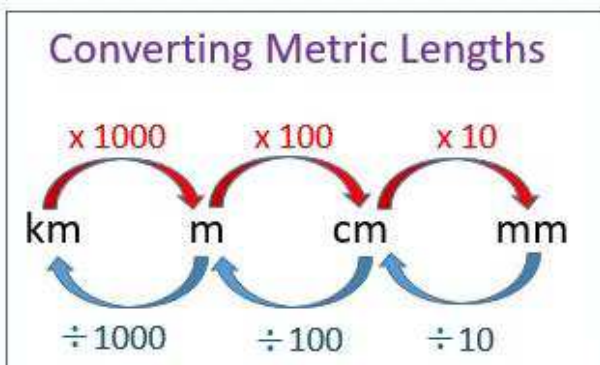| EXAMPLE-2 |
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MULTIPLICATION OF A DECIMAL NUMBER BY 10 OR HIGHER POWERS OF 10-

I) $43.8725 \times 10 = 438.725$ II) $43.8725 \times 100 = 4387.25$ III) $43.8725 \times 1000 = 43872.5$

DIVISION OF A DECIMAL NUMBER BY 10,100,1000-

I) $48.7/10 = 4.87$ II) $48.7/100 = 0.487$ III) $48.7/1000 = 0.0487$

EXAMPLE -3

| EXAMPLE-4 | **MULTIPLICATION** OF A DECIMAL NUMBER BY ANOTHER DECIMAL NUMBER – |

➢ **Step 1-** Multiply the two given decimal numbers, ignoring their decimal points.
➢ **Step 2-** In the product, obtained in step 1, mark the decimal point such that the decimal places in it is equal to the sum of decimal places of the two given numbers.

I)   Multiply : 0.856× 12.39

Since   856×1239= 1060584   (Step 1)

0.856 × 12.39 = 10.60584   (Step 2)   (Ans.)

II)   2.4 × 0.5 × 0.04

Since   24 × 5 × 4 = 480

And, the sum of decimal places in the given decimal numbers 2.4,0.5 and 0.04 = 1+1+2 =4. So in the answer, the decimal point must be placed after 4 digits from the right.

Therefore, 2.4 × 0.5 × 0.04 = 0.0480 or 0.048   (Ans.)

| EXAMPLE-5 |

DIVISION OF A DECIMAL NUMBER BY A NATURAL NUMBER AND BY A DECIMAL NUMBER.

For example- I)   20.64 ÷ 16

Divide in the ordinary way, and in the quotient obtained, place the decimal just after the division of the integral part of the given decimal number.

```
16 ) 20.64 ( 1.29
      16
       4 6
       3 2
        1 4 4
        1 4 4
         ×
```

II)   6.3 ÷ 0.09

Step 1 – Form a fraction with the decimal number to be divided as the numerator and the other decimal number as the denominator.

Step 2- Multiply both the terns of the fraction formed in step 1 but 10 or 100 0r 1000 etc., so that the decimal point in the denominator is removed, and then divide.

$$6.3 ÷ 0.09 = \frac{6.3 × 100}{0.09 × 100} = \frac{630}{9} = 70 \text{ (Ans.)}$$

EXAMPLE-6

SIMPLIFY – I) 3.241 – 0.53 + 6.6105 – 8.2413 + 5.2

Add all the positive numbers together and all the negative numbers separately together as well . Finally, add or subtract as required.

Here,

3·241		
+ 6·6105	– 0·5300	15·0515
+ 5·200	– 8·2413 and, finally	– 8·7713
15·0515 ,	– 8·7713	6·2802

= 15.0515 – 8.7713 = 6.2802 Ans.

II) 97.82 × 0.03 – 0.54 ÷ 0.3

Using the BODMAS rule (In this case, firstly we will divide then multiply and Finally we will subtract)

= 97.82 × 0.03 – 1.8

= 2.9346 – 1.8

= 1.1346 Ans.

SOLVE-

1. **ADD**-

   a. 0.0736 , 0.6095 and 0.9107
   b. 8.9 , 0.9521 and 133.4
   c. 1.01 , 221 and 0.200

2. **SUBTRACT**-

   a. 82 from 97.05

   b. 0.18 from 0.6

   c. 1.002 from 17

3. **Multiply each of the following numbers by 10 , 100 , 1000-**

   a. 0.3725
   b. 0.82
   c. 2.99

4. **Divide each of the following numbers by 10 , 100 , 1000-**

   a. 0.0602
   b. 9.236
   c. 2.4

5. Express 245 gm in kilograms (kg).

6. Express 2354 cm in metres (m).

7. Express 24.25 m in centimetres (cm) .

8. **Simplify** -

   a. 3.5 – 2.43 + 0.075

   b. 8.57 – 6.4432 –1.70 + 0.683

   c. 2.987 – 1.25 – 0.54

9. <u>**Simplify**</u> –

    a. $0.234 \times 10 + 62.8$
    b. $9.32 - 28.54 \div 10$
    c. $3.06 \times 100 - 889.4 \div 100$

10. <u>**Evaluate the following-**</u>

    a. 7.5×2.5
    b. 4.23×0.8
    c. $1.5 \times 1.5 \times 1.5$
    d. $3.204 \div 9$
    e. $13.08 \div 4$
    f. $0.0072 \div 6$
    g. $8.64 \div 1.6$

•••END•••