

Decimal Fractions**Lecture sheet – 10*****Short Question***

1. The weight of 1.8 m long iron pipe is 9 kg. What is the weight of 1 m long iron pipe?

Ans: 5 m

Rough:

The weight of 1.8 m long iron pipe = 9 kg

$$\begin{aligned}\text{The weight of 1m long iron pipe} &= \frac{9}{1.8} \text{ kg} \\ &= \frac{9 \times 10}{1.8 \times 10} \text{ kg} \\ &= \frac{90}{18} \text{ kg} \\ &= 5 \text{ kg}\end{aligned}$$

2. $2 \div 0.5 = ?$

Ans: 4

Rough: $\frac{2}{0.5} = \frac{2 \times 10}{0.5 \times 10} = \frac{20}{5} = 4$

3. $2.4 \div 4 = ?$

Ans: 0.6

Rough:

$$\begin{array}{r} 0.6 \\ 4 \overline{) 2.4} \\ \underline{0} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

4. How much money is needed if 10 persons are given 2.5 taka each?

Ans: 25 taka

Rough: 1 Person get 2.5 tk
10 Persons get (2.5×10) tk
= 25 tk

5. Reza brought a pen for 5.5 taka and exercise book 10.5 taka. How much taka did he spent total?

Ans: 16 tk

Rough: pen = 5.5 taka
Exercise book = 10.5 taka

Total = 16.0 taka

6. $0.001 \times 100 = ?$

Ans: 0.1

Note: If we multiply any decimal number by 10, 100, etc, the decimal point moves to right as many as the number of zeros.

7. $0.1 \times 0.01 \times 0.001 = ?$

Ans: 0.000001

Rough:

0.1	0.001
$\times 0.01$	$\times 0.001$
01	0001
000	00000
0000	000000
0.001	0.000001

(An arrow points from the top-right of the first column to the top-right of the second column.)

8. $0.1 \times 0.2 \times 0.001 = ?$

Ans: 0.00002

Rough:

$$\begin{array}{r} 0.1 \\ \times 0.2 \\ \hline 02 \\ 000 \\ \hline 0.02 \end{array} \quad \begin{array}{r} 0.02 \\ \times 0.001 \\ \hline 002 \\ 0000 \\ 00000 \\ \hline 0.00002 \end{array}$$

9. $5391 \div 100 = ?$

Ans: 53.91

Note:

If we multiply any number by 10, 100 etc, the decimal point moves to the left as many as the number of zeros.

10. $6.43 \times 10 = ?$

Ans: 64.3

11. Rini can walk 3.5 km in 1 hour. To walk 7 km, what time is required?

Ans: 2 Hours.

Rough:

Rini can walk 3.5 km in 1 hour

Rini can walk 1 km in $\frac{1}{3.5}$ hour

Rini can walk 7 km in $\frac{7}{3.5}$ hour

$$\begin{aligned} &= \frac{7 \times 10}{3.5 \times 10} \text{ hour} \\ &= \frac{70}{35} \text{ hour} \\ &= 2 \text{ hours} \end{aligned}$$

12. If weight of a mango is 0.75 kg. What will be the weight of such 8 mangoes?

Ans: 6 kg

Rough:

Weight of 1 mango	= 0.75 kg	0.75
Weight of 8 mangoes	= (0.75 × 8) kg	× 8
	= 6 kg	<hr/> 6.00

13. 0.2 = what in fraction?

Ans: $0.2 = \frac{1}{5}$

Rough: $\frac{0.2}{1} = \frac{0.2 \times 10}{1 \times 10} = \frac{2}{10} = \frac{1}{5}$

14. What will be the product if multiplicand is 2.5 and multiplier is 0.1?

Ans: 0.25

Rough:

2.5
× 0.1
<hr/> 25
000
<hr/> 0.25

15. Do subtraction: 18.575 – 15.895

Ans: 2.68

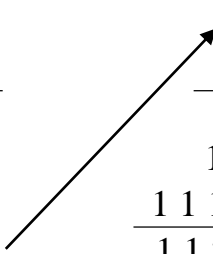
Rough:

18.575
- 15.895
<hr/> 2.680

16. $0.23 \times 5.37 \times 9.12 = ?$

Ans: 11.264112

Rough:

$\begin{array}{r} 0.23 \\ \times 5.37 \\ \hline 161 \\ 069 \times \\ 115 \times \times \\ \hline 1.2351 \end{array}$		$\begin{array}{r} 1.2351 \\ \times 9.12 \\ \hline 24702 \\ 12351 \times \\ 111159 \times \times \\ \hline 11.264112 \end{array}$
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17. $0.3 \times 0.03 \times 0.003 = ?$

Ans: 0.000027

18. $0.5 \times 0.03 \times 0.02 = ?$

Ans: 0.0003

19. The price of four oranges is 36.20 tk. What is the price of one orange?

Ans: 9.05 tk

Rough:

$$\begin{array}{r} 9.05 \\ 4 \overline{) 36.20} \\ \underline{36} \\ 2 \\ \underline{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

20. If 1m is equal 3.24 feet, 8 m is how many feet?

Ans: 25.92 feet.

Rough:

$$\begin{array}{r} 3.24 \\ \times 8 \\ \hline 25.92 \end{array}$$

Exercise (Do yourself)

1. $8.947 \times 100 = ?$
2. $0.2 \times 2.2 \times 2.22 = ?$
3. Price of a pen is 20.25 tk. How much will 8 pens cost?
4. What will be the product if 0.5 is multiplied by 12?
5. $22.5 \div 15 = ?$
6. $0.07 \div 10 = ?$
7. What is the value if 15 divided by 0.04?
8. If the price of 3.5 kg potato is 70 taka, what is the price of 1 kg potato?
9. $220 \div 12.5 = ?$
10. $0.2 \times 0.2 = ?$

Solution

1. 894.7
2. 0.9768
3. 162tk
4. 6
5. 1.5
6. 0.007
7. 375
8. 20 tk
9. 17.6
- 10.0.04