



# Key answer

Name:

Worksheet(3)

Grade:6(A)

Subject : Math

Date :

## Multiplication of Decimals by 10, 100, 1000

1. When we multiply a decimal by **10**, we shift the decimal point **1 place** to the right.

$$3.146 \times 10 = 31.46$$

2. When we multiply a decimal by **100**, the decimal point shifts **2 places** to the right.

$$3.146 \times 100 = 314.6$$

3. When we multiply a decimal by **1000**, the decimal point shifts **3 places** to the right.

$$3.146 \times 1000 = 3146$$

### Remember:

To multiply by 10, 100, 1000, shift the decimal point as many places to the right as there are zeros after 1.



## Division of Decimals by 10, 100 and 1000

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Example: 32.16

1. When we divide a decimal by **10**, we shift the decimal point **1 place to the left.**

$$32.16 \div 10 = 3.216 \quad \left[ \frac{3216}{100} \times \frac{1}{10} = \frac{3216}{1000} = 3.216 \right]$$

2.  $32.16 \div 100 = 0.3216$  (Shift the decimal point **2 places to the left.**)

3.  $32.16 \div 1000 = 0.03216$  (Shift the decimal point **3 places to the left.**)

*Exercise(1) : Evaluate the following :*

1)  $7.56 \times 10 = 75.6$

2)  $1.32 \times 10 = 13.2$

3)  $0.12 \times 1000 = 120$

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4)  $0.078 \times 100 = 7.8$

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5)  $9.05 \times 10 = 90.5$

6)  $120.8 \times 100 = 12080$

←  
7)  $698.3 \div 10 = 69.83$

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8)  $7.8 \div 100 = 0.078$        $0.078 \times 8$

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9)  $6.17 \div 1000 = 0.00617$        $0.00617$

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10)  $8 \div 10 = 0.8$

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11)  $9 \div 100 = 0.09$

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12)  $354 \div 1000 = 0.354$        $0.354 \times$

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13)  $7 \times 100 \div 1000 =$

$700 \div 1000 = 0.700$   
 $= 0.7$

or  
 $\frac{700}{1000} = 0.7$

Exercise (2):

The length of a ribbon is 2.58 m. What is the total length of 1000 such ribbons?

$$\text{Total length} = 2.58 \times 1000$$

$$= \boxed{2580} \text{ m}$$

$$\begin{array}{r} 2.580 \\ \times 1000 \\ \hline 2580. \end{array}$$

Exercise (3):

Two less than a dozen oranges cost \$180.7. What is the cost of one orange?

$$12 - 2 = 10$$

$$\frac{180.7}{10} = \$\boxed{18.07}$$

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