

The standard short method of multiplication can also be used when multiplying a decimal by a single digit.

The stages are as follows:

**Step 1: write the sum out correctly**

The question may be put in a different layout eg  $3.8 \times 7 =$

*Make sure it is laid out with the units under each other as shown.*

$$\begin{array}{r} \text{T} \quad \text{U} \quad \text{t} \\ 3 \cdot 8 \\ \times 7 \\ \hline \end{array}$$

**Step 2: place the decimal point in line and multiply the tenths.**

Place the decimal point in the answer in case you forget to do this later!  
8 (tenths) x 7 is 56 (tenths) or 5.6.

Put the 6 in the answer in the tenths.  
Place the 5 (units) in the units column, but under the answer line.

$$\begin{array}{r} \text{T} \quad \text{U} \quad \text{t} \\ 3 \cdot 8 \\ \times 7 \\ \hline \quad . 6 \\ 5 \end{array}$$

**Step 3: multiply the units**

3 (units) x 7 is 21 (units).  
Add the 5 to make 26 (units) or 2 tens and 6 units.  
Place the 6 in the units column and the 2 in the tens column.  
All done!!

$$\begin{array}{r} \text{T} \quad \text{U} \quad \text{t} \\ 3 \cdot 8 \\ \times 7 \\ \hline 2 \quad 6 \cdot 6 \\ 5 \end{array}$$

1. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 5.4 \\ \times 3 \\ \hline \\ \hline \end{array}$$

2. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 2.9 \\ \times 5 \\ \hline \\ \hline \end{array}$$

3. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 6.3 \\ \times 4 \\ \hline \\ \hline \end{array}$$

4. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 1.8 \\ \times 7 \\ \hline \\ \hline \end{array}$$

5. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 5.6 \\ \times 6 \\ \hline \\ \hline \end{array}$$

6. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 7.8 \\ \times 5 \\ \hline \\ \hline \end{array}$$

7. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 9.4 \\ \times 4 \\ \hline \\ \hline \end{array}$$

8. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 6.3 \\ \times 6 \\ \hline \\ \hline \end{array}$$

9. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 7.9 \\ \times 8 \\ \hline \\ \hline \end{array}$$

10. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 6.7 \\ \times 5 \\ \hline \\ \hline \end{array}$$

11. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 7.2 \\ \times 7 \\ \hline \\ \hline \end{array}$$

12. 
$$\begin{array}{r} \text{U} \quad \text{t} \\ 8.7 \\ \times 9 \\ \hline \\ \hline \end{array}$$

## Answers

1. 16.2

2. 14.5

3. 25.2

4. 12.6

5. 533.6

6. 39.0

7. 37.6

8. 37.8

9. 63.2

10. 33.5

11. 50.4

12. 78.3