

Multiply Decimals

Maram worked 25.5 hours this week. She earns \$5.60 per hour. How much money did Maram earn this week?

To solve, you need to find the product 25.5×5.60 .

$$\begin{array}{r} \$5.60 \\ 25.5 \\ \hline 142800 \end{array}$$

STEP 1: Multiply as you would with whole numbers.

STEP 2: Count the number of decimal places in the factors.

$\$5.60 \rightarrow 2$ decimal places

$25.5 \rightarrow 1$ decimal place

$\overline{142800} \rightarrow 3$ decimal places

STEP 3: starting at the right side of the answer, count over that number of places. This is where the decimal point is placed.

$$\begin{array}{r} \$5.60 \\ 25.5 \\ \hline 142800 \end{array}$$

Maram earned \$142.80 this week.

Examples:

A- Find the product.

$$\begin{array}{r} 1) 26.78 \\ \times 4.93 \\ \hline 8034 \\ 241020 \\ +1071200 \\ \hline \end{array}$$

$$\begin{array}{r} 2) 51.459 \\ \times 6.32 \\ \hline 102918 \\ 1543770 \\ +3087540 \\ \hline \end{array}$$

$$\begin{array}{r} 3) 82.325 \\ \times 7.04 \\ \hline 329300 \\ +57627500 \\ \hline 579.56800 \end{array}$$

B- Find the product.

4) 12×0.4
 4.8

5) 6.2×1.5
 9.3

6) 7.348×0.9
 6.6132

C- Place the decimal point in the product.

7) $5 \times 1.7 = 85$

$5 \rightarrow 0$ decimal places

$1.7 \rightarrow 1$ decimal place

$\overline{85} \rightarrow 1$ decimal place

8.5

8) $4.4 \times 2.1 = 924$

$4.4 \rightarrow 1$ decimal place

$2.1 \rightarrow 1$ decimal place

$\overline{924} \rightarrow 2$ decimal places

9.24

9) $6.91 \times 3.2 = 22112$

$6.91 \rightarrow 2$ decimal places

$3.2 \rightarrow 1$ decimal place

$\overline{22112} \rightarrow 3$ decimal places

22.112