

Multiplying Decimals by Integers

ANSWERS

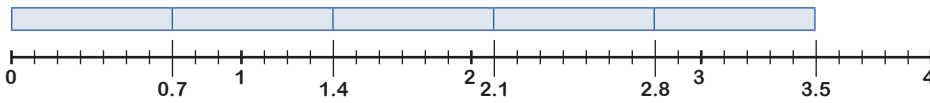


Section A

Complete the multiplications by drawing bars on the given number lines.

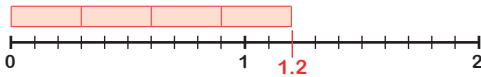
Example

0.7×5

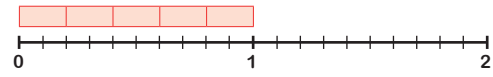


$0.7 \times 5 = 3.5$

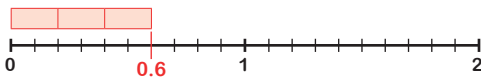
1) $0.3 \times 4 = 1.2$



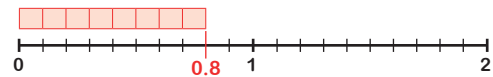
2) $0.2 \times 5 = 1$



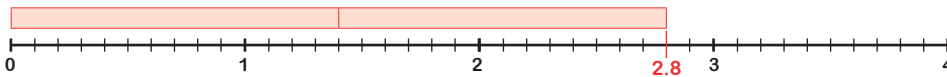
3) $3 \times 0.2 = 0.6$



4) $8 \times 0.1 = 0.8$



5) $1.4 \times 2 = 2.8$



Write down anything you notice:

Section B

Using known facts

Example

If $4 \times 9 = 36$
Then $0.4 \times 9 = 3.6$

1) $5 \times 5 = 25$

$0.5 \times 5 = 2.5$

2) $6 \times 3 = 18$

$0.6 \times 3 = 1.8$

3) $7 \times 9 = 63$

$7 \times 0.9 = 6.3$

Continue to use known facts to answer the rest of the questions.

4) $0.1 \times 2 = 0.2$

5) $8 \times 0.5 = 4$

6) $12 \times 0.6 = 7.2$

7) $0.3 \times 7 = 2.1$

Section C

Using the Column Method

Example

7.2×9

$$\begin{array}{r} 7.2 \\ \times 9 \\ \hline 1.8 \\ + 63.0 \\ \hline 64.8 \end{array}$$

1) 3.5×3

$$\begin{array}{r} 3.5 \\ \times 3 \\ \hline 1.5 \\ + 9 \\ \hline 10.5 \end{array}$$

2) 2.6×5

$$\begin{array}{r} 2.6 \\ \times 5 \\ \hline 3.0 \\ + 10 \\ \hline 13 \end{array}$$

3) 8.9×4

$$\begin{array}{r} 8.9 \\ \times 4 \\ \hline 3.6 \\ + 32 \\ \hline 35.6 \end{array}$$

4) 7×1.8

$$\begin{array}{r} 1.8 \\ \times 7 \\ \hline 5.6 \\ + 7.0 \\ \hline 12.6 \end{array}$$

5) 2×4.51

$$\begin{array}{r} 4.51 \\ \times 2 \\ \hline 0.02 \\ + 1.00 \\ + 8 \\ \hline 9.02 \end{array}$$

6) 3.76×4

$$\begin{array}{r} 3.76 \\ \times 4 \\ \hline 0.24 \\ + 2.8 \\ + 12 \\ \hline 15.04 \end{array}$$

7) 9×4.12

$$\begin{array}{r} 4.12 \\ \times 9 \\ \hline 0.18 \\ + 0.9 \\ + 36.00 \\ \hline 37.08 \end{array}$$

8) 3×5.88

$$\begin{array}{r} 5.88 \\ \times 3 \\ \hline 0.24 \\ + 2.4 \\ + 15.00 \\ \hline 17.64 \end{array}$$