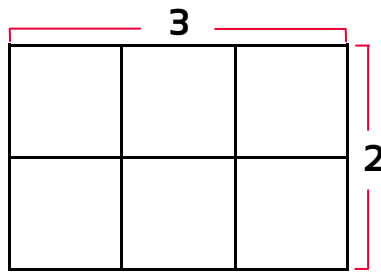


Multiplying Whole Numbers by Tenths

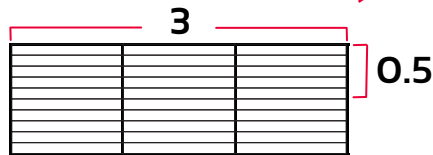
Shade the 2 rows of 3:

$3 \times 2 = \underline{\quad}$

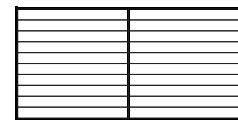


Shade the diagram:

$3 \times 0.5 = \underline{\quad}$

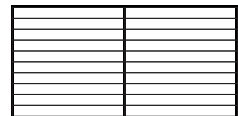
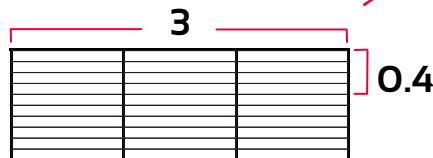


Redraw your answer here:



Shade the diagram:

$3 \times 0.4 = \underline{\quad}$

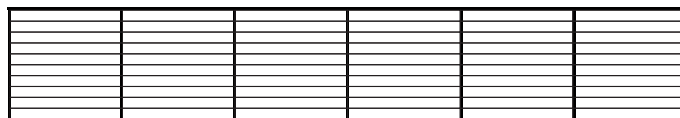


When you multiply a whole number by a decimal (tenths), does the answer gets smaller or larger?

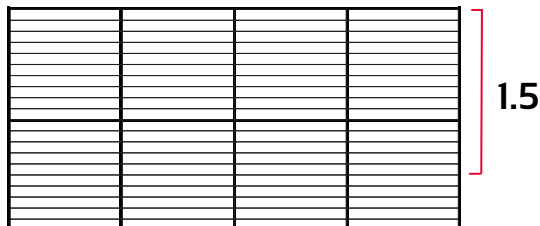
How many decimal places are in your answer? _____

Shade and answer these questions:

1) $6 \times 0.2 = \underline{\quad}$



2) $4 \times 1.5 = \underline{\quad}$



Now complete these:

1) $8 \times 0.4 = \underline{\quad}$

2) $5 \times 0.3 = \underline{\quad}$

3) $9 \times 0.2 = \underline{\quad}$

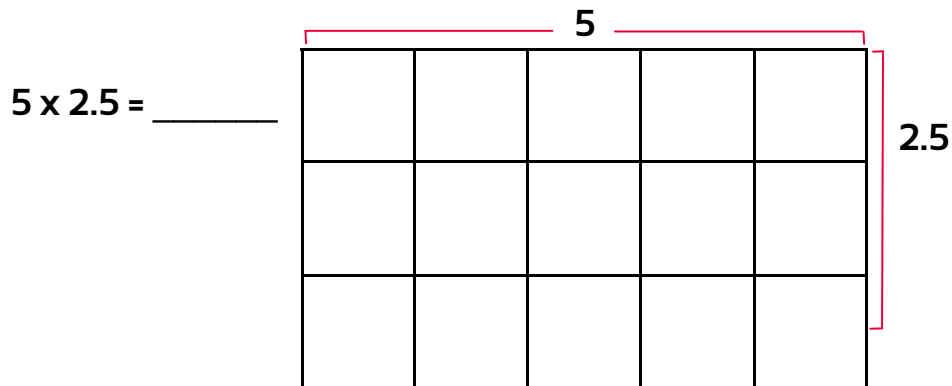
4) $2 \times 1.4 = \underline{\quad}$

5) $3 \times 1.6 = \underline{\quad}$

6) $5 \times 1.3 = \underline{\quad}$

Multiplying Whole Numbers by Ones & Tenths

Shade the shape to show:



Now calculate the answer using the written method:

$$\begin{array}{r} 2.5 \\ \times 5 \\ \hline \\ \hline \end{array}$$

How many decimal places are in your answer?

Complete these (remember your answer is in tenths):

1)

$$\begin{array}{r} 3.4 \\ \times 6 \\ \hline \\ \hline \end{array}$$

2)

$$\begin{array}{r} 4.2 \\ \times 8 \\ \hline \\ \hline \end{array}$$

3)

$$\begin{array}{r} 5.3 \\ \times 7 \\ \hline \\ \hline \end{array}$$

4)

$$\begin{array}{r} 4.8 \\ \times 4 \\ \hline \\ \hline \end{array}$$

5)

$$\begin{array}{r} 6.5 \\ \times 5 \\ \hline \\ \hline \end{array}$$

6)

$$\begin{array}{r} 8.2 \\ \times 8 \\ \hline \\ \hline \end{array}$$

7)

$$\begin{array}{r} 3.9 \\ \times 6 \\ \hline \\ \hline \end{array}$$

8)

$$\begin{array}{r} 7.4 \\ \times 5 \\ \hline \\ \hline \end{array}$$

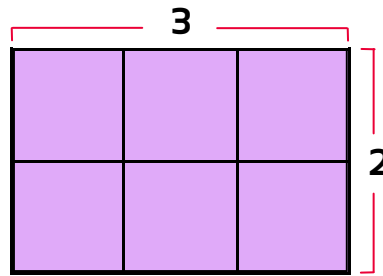
9)

$$\begin{array}{r} 5.7 \\ \times 9 \\ \hline \\ \hline \end{array}$$

Multiplying Whole Numbers by Tenths

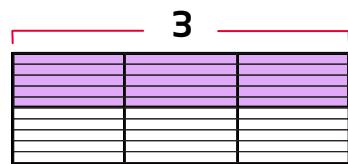
Shade the 2 rows of 3:

$$3 \times 2 = 6$$

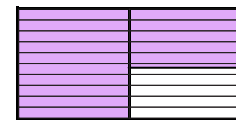


Shade the diagram:

$$3 \times 0.5 = 1.5$$

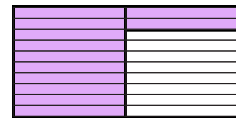
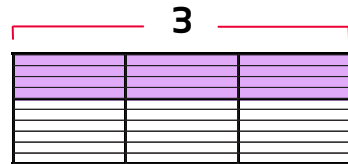


Redraw your answer here:



Shade the diagram:

$$3 \times 0.4 = 1.2$$

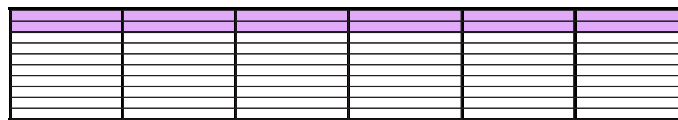


When you multiply a whole number by a decimal (tenth) the answer gets smaller or larger? smaller

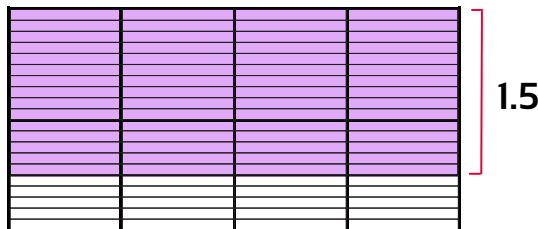
How many decimal places are in your answer? 1

Shade and answer these questions:

1) $6 \times 0.2 = 1.2$



2) $4 \times 1.5 = 6.0$ or 6



Now complete these:

1) $8 \times 0.4 = 3.2$

2) $5 \times 0.3 = 1.5$

3) $9 \times 0.2 = 1.8$

4) $2 \times 1.4 = 2.8$

5) $3 \times 1.6 = 4.8$

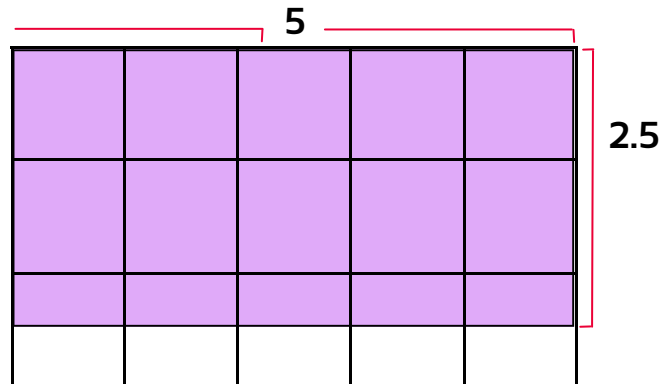
6) $5 \times 1.3 = 6.5$

Multiplying Whole Numbers by Ones & Tenths

1 B

Shade the shape to show:

$$5 \times 2.5 = 12.5$$



Now calculate the answer using the written method:

$$\begin{array}{r} 2.5 \\ \times 5 \\ \hline 12.5 \end{array}$$

How many decimal places are in your answer? **one**

Complete these (remember your answer is in tenths):

1)

$$\begin{array}{r} 3.4 \\ \times 6 \\ \hline 20.4 \end{array}$$

2)

$$\begin{array}{r} 4.2 \\ \times 8 \\ \hline 33.6 \end{array}$$

3)

$$\begin{array}{r} 5.3 \\ \times 7 \\ \hline 37.1 \end{array}$$

4)

$$\begin{array}{r} 4.8 \\ \times 4 \\ \hline 19.2 \end{array}$$

5)

$$\begin{array}{r} 6.5 \\ \times 5 \\ \hline 32.5 \end{array}$$

6)

$$\begin{array}{r} 8.2 \\ \times 8 \\ \hline 65.6 \end{array}$$

7)

$$\begin{array}{r} 3.9 \\ \times 6 \\ \hline 23.4 \end{array}$$

8)

$$\begin{array}{r} 7.4 \\ \times 5 \\ \hline 37.0 \end{array}$$

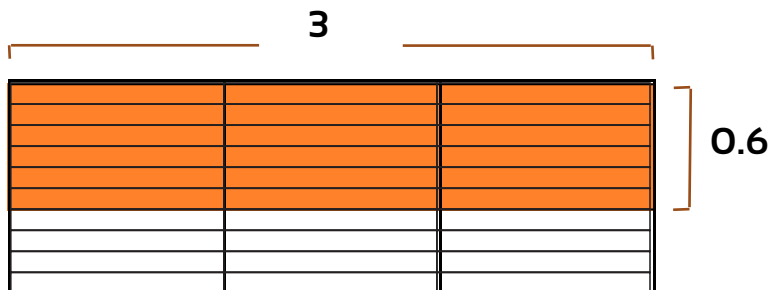
9)

$$\begin{array}{r} 5.7 \\ \times 9 \\ \hline 51.3 \end{array}$$

This is always true:

ones x tenths = tenths

Look at this example:



Because we know $3 \times 6 = 18$, we can easily work this out:

$$3 \times 6 \text{ tenths} = 18 \text{ tenths}$$

$$3 \times 0.6 = 1.8$$

$$3 \times \frac{6}{10} = \frac{18}{10} = 1 \frac{8}{10}$$

Rule for multiplying decimals: count the decimal places in the question; the answer has the same number of decimal places.

$$\begin{array}{c}
 1 \quad 1 \\
 \downarrow \quad \downarrow \\
 3 \times 0.6 = 1.8
 \end{array}$$

Now work these out:

- 1) $4 \times 0.7 = \underline{\quad}$ 2) $5 \times 0.9 = \underline{\quad}$ 3) $2 \times 0.8 = \underline{\quad}$