

Multiply by Whole Tens in Columns

$7 \times 58 = 406$. NOW THINK: What would 70×58 be? Can you guess?	$\begin{array}{r} 5 \\ 58 \\ \times 7 \\ \hline 406 \end{array}$	$116 \times 9 = 1,044$. NOW THINK: What would 116×90 be? Can you guess?	$\begin{array}{r} 15 \\ 116 \\ \times 9 \\ \hline 1044 \end{array}$
Don't read more until you think about the questions above!			
70×58 $= 10 \times (7 \times 58)$ So, the result to 70×58 is ten times the result to 7×58 . Since $7 \times 58 = 406$, then 70×58 is 4,060. Just tag a zero!	116×90 $= (116 \times 9) \times 10$ So, the result to 116×90 is <i>ten</i> times the result to 116×9 . Since $116 \times 9 = 1,044$, then 116×90 is 10,440. Just tag a zero!		

1. Use the above method to multiply these.

a. $60 \times 87 = \underline{\hspace{2cm}}$ (First multiply 6×87) <div style="border: 1px solid black; width: 150px; height: 100px; margin-top: 10px;"></div>	b. $51 \times 40 = \underline{\hspace{2cm}}$ (First multiply $51 \times \underline{\hspace{1cm}}$) <div style="border: 1px solid black; width: 150px; height: 100px; margin-top: 10px;"></div>	c. $66 \times 30 = \underline{\hspace{2cm}}$ (First multiply $\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$) <div style="border: 1px solid black; width: 150px; height: 100px; margin-top: 10px;"></div>
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2. **a.** A crate of apples weighs 20 kg.
How much do 65 crates weigh?
- b.** One crate contains four layers of apples.
There are 25 apples in each layer.
How many apples are in a crate?
- c.** A store owner sold 60 kg of apples to one customer.
How many apples did the customer get?

$ \begin{array}{r} 5 \\ 58 \\ \times 70 \\ \hline 4060 \end{array} $	<p>See the zero in 70? You can write a zero in the ones place in the answer before calculating. Then just multiply 7×58 normally.</p>
$ \begin{array}{r} 57 \\ 558 \\ \times 90 \\ \hline 50220 \end{array} $	<p>See the zero in 90? You can write a zero in the ones place in the answer before calculating. Then just multiply 9×558 normally.</p>

3. Multiply. Place a zero in the ones place before multiplying.

a.
$$\begin{array}{r}
 46 \\
 \times 80 \\
 \hline
 0
 \end{array}$$

b.
$$\begin{array}{r}
 27 \\
 \times 60 \\
 \hline
 \end{array}$$

c.
$$\begin{array}{r}
 805 \\
 \times 30 \\
 \hline
 \end{array}$$

d.
$$\begin{array}{r}
 179 \\
 \times 40 \\
 \hline
 \end{array}$$

e.
$$\begin{array}{r}
 549 \\
 \times 20 \\
 \hline
 \end{array}$$

4. Multiply. Place a zero in the ones place and in the tens place before multiplying.

a.
$$\begin{array}{r}
 40 \\
 \times 80 \\
 \hline
 0
 \end{array}$$

b.
$$\begin{array}{r}
 120 \\
 \times 70 \\
 \hline
 \end{array}$$

c.
$$\begin{array}{r}
 231 \\
 \times 80 \\
 \hline
 \end{array}$$

d.
$$\begin{array}{r}
 658 \\
 \times 70 \\
 \hline
 \end{array}$$

5. The bus driver Mr. Hendrickson drives about 250 km each day on his route. About how many kilometers does he drive in his 5-day work week?

How about in the 4 weeks he works in a month?

6. One side of farmer Greg's *square*-shaped field measures 200 m. He jogged around it seven times. What is the distance he jogged?

7. Calculate. Use a notebook.

a. $80 \times 56 + 15,000$

b. $65,000 - 50 \times 430$

c. $20 \times (85 + 126) + 2,333$

Puzzle Corner

If $382 \times 29 = 11,078$,
then what is $3,820 \times 290$?