

2 digit by 1 digit multiplication

Part 1: Without regrouping (or carrying)

Check out this video to see the steps in order.

https://www.youtube.com/watch?v=SfxULALs_u8

*Always start with my multiplying your ones! Then move on to your tens.

Step 1:	Step 2:
$\begin{array}{r} 1 \ 3 \\ \times \ 2 \\ \hline 6 \end{array} \quad (2 \times 3 = 6)$	$\begin{array}{r} 1 \ 3 \\ \times \ 2 \\ \hline 2 \ 6 \end{array} \quad (2 \times 1 = 2)$

Try these problems out:

a)
$$\begin{array}{r} 1 \ 2 \\ \times \ 4 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 2 \ 1 \\ \times \ 3 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 3 \ 3 \\ \times \ 3 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 2 \ 4 \\ \times \ 2 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 3 \ 1 \\ \times \ 2 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 2 \ 2 \\ \times \ 3 \\ \hline \end{array}$$

Part 2: With regrouping (or carrying)

*Sometimes the product is larger than 10. In that case, you need to regroup (very similar to what we do with addition)

Check out this video to see the steps in order.

https://www.youtube.com/watch?v=SfxULALs_u8&list=RDCMUC4a-Gbdw7vOaccHmFo40b9g&start_radio=1&t=2

*Same as before: always start with my multiplying your ones!

* Use a zero as a place holder once you are ready to multiply your tens.

a)
$$\begin{array}{r} 3 \ 2 \\ \times \ 4 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 8 \ 6 \\ \times \ 3 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 4 \ 5 \\ \times \ 3 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 2 \ 3 \\ \times \ 6 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 5 \ 6 \\ \times \ 6 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 4 \ 9 \\ \times \ 7 \\ \hline \end{array}$$