



Classwork 5-11-2020

Today we will work on multiplying larger numbers.

Good morning and Hello from Mrs. Cronin!

Today is 5/11/2020

Where To Find Your Work: <https://lynncronin.weebly.com/>

Learning Objectives: Today we will begin to learn how to multiply larger numbers, then we will study on Quizlet

Learning Activities: PowerPoint, Quizlet

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MA.3.OA.C, MA.3.OA.C.7 - MA.4.OA.A - MA.5.NBT.A

Multiply 6 x 12.

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$$

Huh?

We never learned this!!

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$$

I know! Now you will!

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$$

To multiply 6 times 12 you are actually
multiplying 6 times 10 and then adding 6 times 2.
(because the 1 in the tens place equals 10 and the 2 in the ones place equals 2)

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$$

Let's first split it up and do the multiplication

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array} \longrightarrow 10 + 2$$

Do the multiplication 10×6 and 2×6

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$$



$$\begin{array}{r} 10 \\ \times 6 \\ \hline \end{array}$$

+

$$2$$

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

+

Then add the two answers

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$$



$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$$

+

$$2$$

+

$$\begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

Then add the two answers

$$\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array} + \begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array}$$

$$60 + 12 = 72$$

Let's try a couple of that way. What is 22×3 ?

$$\begin{array}{r} 22 \\ \times 3 \\ \hline \end{array}$$

22 is the same as 20 plus 2

$$\begin{array}{r} 22 \\ \times 3 \\ \hline \end{array} \longrightarrow 20 + 2$$

When we do the math...

$$\begin{array}{r} 22 \\ \times 3 \\ \hline \end{array}$$



$$\begin{array}{r} 20 \\ \times 3 \\ \hline 60 \end{array}$$

+

$$2$$

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

+

$$6$$

When we do the math...

$$\begin{array}{r} 22 \\ \times 3 \\ \hline \end{array}$$



$$\begin{array}{r} 20 \\ \times 3 \\ \hline 60 \end{array} + \begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array}$$

$$60 + 6 = 66$$

Try another one. What does $21 \times 3 =$

$$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$$

First break 21 into its tens and ones

Now add the multiply by 3

$$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array} \longrightarrow 20 + 1$$

Now do the math...

$$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$$



$$\begin{array}{r} 20 \\ \times 3 \\ \hline \end{array}$$

+

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

Now add them together...

$$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$$



$$\begin{array}{r} 20 \\ \times 3 \\ \hline 60 \end{array}$$

+

1

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

+

3

$$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$$



$$\begin{array}{r} 20 \\ \times 3 \\ \hline 30 \end{array} + \begin{array}{r} 1 \\ \times 3 \\ \hline 6 \end{array}$$

$$30 + 6 = 36$$

Get it? Split the two-digit number into its tens & its ones – then do the multiplication, then add.

$$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$$



$$\begin{array}{r} 20 \\ \times 3 \\ \hline 60 \end{array} + \begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$$

$$60 + 3 = 63$$



Please complete these 5 problems
then send me the answers!

1. What is 24×2

$$\begin{array}{r} 24 \\ \times 2 \\ \hline \end{array} \quad \longrightarrow \quad \begin{array}{r} 20 \\ \times 2 \\ \hline \end{array} \quad + \quad \begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$$

2. What is 14×2 ?

$$\begin{array}{r} 14 \\ \times 2 \\ \hline \end{array}$$



$$\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$$

+

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

3. What is 11×4 ?

$$\begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$$



4. What is 23×2 ?

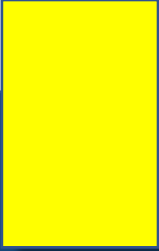
$$\begin{array}{r} 23 \\ \times 2 \\ \hline \end{array}$$



4. What is 43×3 ?

$$\begin{array}{r} 43 \\ \times 3 \\ \hline \end{array}$$





**Write down the answers
and send me a picture!**

then work on Quizlet:

https://quizlet.com/_8e0few?x=1qqt&i=2qrr7s

No First-In-Math today!