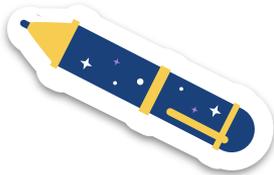




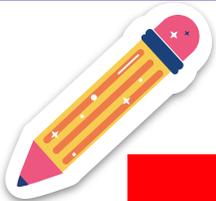
Welcome back 😊
It's **MATH** class !



T.Samya Alghafri



Multiply by 2 song





Classroom Rules!



Be on Time



Clean Your Desk



Do Your Best



Raise Your Hand



Listen To Your Teacher



Be kind
show respect



STREAM



SCIENCE TECHNOLOGY READING ENGINEERING ARTS MATH

S

T

R



E

A

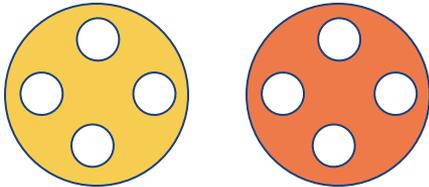
M



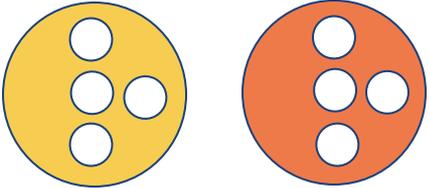
Problem Solving Review

02:00

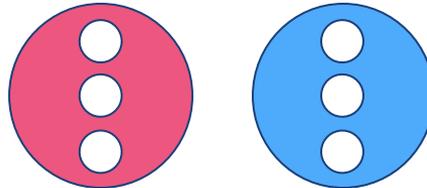
Complete the multiplication that describes the model



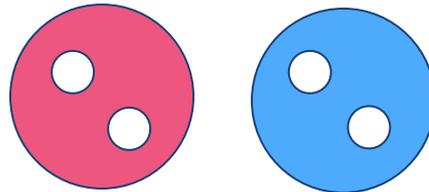
$$2 \times 4 = 8$$



$$2 \times \quad =$$



$$2 \times \quad =$$



$$2 \times \quad =$$



★ Vocabulary Word ★



Multiply

الضرب



Sequence of products using the same base number multiplied by different numbers.



Patterns with multiples of 10

Learning outcome:

Students understand basic facts, place value, and patterns to multiply by 10.

Success criteria:

1. I can use multiply by 10
2. I can explain how to use facts and place value to multiply by 10

Lesson 10-1

Patterns with Multiples of 10



Be Curious

Which doesn't belong?

$$4 \times 20$$

$$40 \times 2$$

$$4 \times 2 \times 10$$

$$2 \times 10 \times 4$$



Lesson explaining video

$$22 \times 10 = 220$$

$$39 \times 10 = 390$$

$$72 \times 10 = 720$$

$$11 \times 10 = 110$$

$$99 \times 10 = 990$$

$$8 \times 60 = ?$$

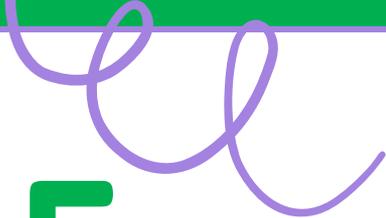
$$8 \times 6 \times \underline{10} = ?$$

$$48 \times 10 = ?$$

$$8 \times 60 = 480$$



LINK TO UAE



There is 20 UAE flag in each bag. Maktoom will buy 7 bags. How many flags will Maktoom have?



$$20 \times 7 = ?$$

$$2 \text{ tens} \times 7 = 14 \text{ tens}$$

$$14 \text{ tens} = 140 \text{ UAE Flag}$$



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Learn

A trading card album has 8 cards on each page.
There are 60 pages full of cards.



How can you determine the total number of cards in the album?

A multiplication equation can represent the problem.

► **One Way** Use basic facts and place value.

$$\begin{aligned}60 \times 8 &= c \\60 \times 8 &= 6 \text{ tens} \times 8 \\6 \times 8 &= 48 \\6 \text{ tens} \times 8 &= 48 \text{ tens} \\48 \text{ tens} &= 480 \\480 &= c\end{aligned}$$

► **Another Way** Decompose 60.

$$\begin{aligned}60 \times 8 &= c \\60 \times 8 &= ? \\6 \times 10 \times 8 &= ? \\6 \times 8 \times 10 &= ? \\48 \times 10 &= 480\end{aligned}$$

Math is... **Structure**

Why do multiples of 10 always have a zero in the ones place?

Basic facts, place-value understanding, and patterns can be used to multiply with multiples of 10.



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Work Together

How can you determine the product of 90×5 ?
Explain your thinking.

$$90 \times 5 = ?$$

$$9 \text{ tens} \times 5 = 45 \text{ tens}$$

$$45 \text{ tens} = 450$$

$$90 \times 5 = 450$$





On My Own

Name _____



How can you use place value to multiply?

1. 5×40

5 \times 4 tens = 20 tens

So, $5 \times 40 = 200$

2. 6×50

6 \times 5 tens = 30 tens

So, $6 \times 50 = 300$

3. 7×90

7 \times 9 tens = 63 tens

So, $7 \times 90 = 630$

4. 8×30

8 \times 3 tens = 24 tens

So, $8 \times 30 = 240$.

5. Nia uses 50 blocks to create a sculpture. Use place value to find how many blocks she uses to create 7 sculptures.

5 tens \times 7 = 35 tens

So, $50 \times 7 = 350$



Time to Practice!



Open the link and start solving.
Don't forget to take screenshot and share it!

The screenshot shows the iKnowIt website interface. At the top, there is a navigation bar with the iKnowIt logo, the text "Multiplying by Multiples of 10", and a "Login" button. The main content area displays a multiplication problem:
$$\begin{array}{r} 80 \\ \times 7 \\ \hline \end{array}$$
 Below the problem is an empty rectangular box for the answer. On the right side, there is a progress indicator showing "2/15" and a score indicator showing "2". At the bottom of the interface, there is a "Hint" button with a house icon and a green "Submit" button. A cartoon character is visible in the bottom right corner.

<https://www.iknowit.com/lessons/c-multiplying-by-multiples-of-10.html>



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How can you decompose the multiple of 10 to multiply?

6. 4×90

$$\begin{array}{r} 4 \times \underline{9} \times 10 \\ \swarrow \quad | \\ \underline{36} \times 10 = \underline{360} \end{array}$$

7. 3×70

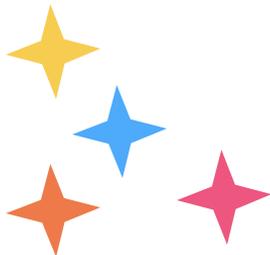
$$\begin{array}{r} 3 \times \underline{7} \times 10 \\ \swarrow \quad | \\ \underline{21} \times 10 = \underline{210} \end{array}$$

8. 6×40

$$\begin{array}{r} 6 \times \underline{4} \times 10 \\ \swarrow \quad | \\ \underline{24} \times 10 = \underline{240} \end{array}$$

9. 8×50

$$\begin{array}{r} 8 \times \underline{5} \times 10 \\ \swarrow \quad | \\ \underline{40} \times 10 = \underline{400} \end{array}$$





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10. How can you use basic facts and place value to show how to find $a = 7 \times 40$? Then solve for a .

$$\begin{aligned}40 \times 7 &= a \\4 \text{ tens} \times 7 &= 28 \text{ tens} \\40 \times 7 &= 280\end{aligned}$$

- $30 \times 8 = ?$
- 3 tens $\times 8 = 24$ tens
- $30 \times 8 = 240$
11. There are 30 markers in each package. Jacob buys 8 packages. How many markers does he buy?
12. **STEM Connection** Hiro tracks turtles for 3 nights. He sees the same number of turtles each night. If he saw 150 turtles, how many did he see each night? Explain your answer.



Problem Solving Checklist: Word Problems

Did I...

1 **Circle** the numbers?



2 **Underline** the question and **Box** the key words?



3 **Draw** a picture to help me solve the problem?



4 **Write** a number sentence for the problem?



5 **Solve** the problem and show my work?





We are done for today's class!

You did a great job 😊
See you tomorrow!

