Thank You for your purchase of this $3^{\text {rd }}$ grade math resource! As a $3^{\text {rd }}$ grade teacher, I can never get enough practice with multiplication for my students! Whether used in whole group, small group, centers, or individual practice, I think you will love these versatile worksheets! Please see my How to Use page for suggestions on using these multiplication activity pages. I hope they will save you time and help your students master multiplication!

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## Thank you to:



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## How to Use Multiplication Worksheets



Unknown Factors: Practice finding the unknown factor will help students understand the relationship between multiplication and division.


Arrays: Mastering arrays is essential for students to be able to visually represent multiplication. This sheet will give them focused practice.

Add Zero to Multiply by 10's: This worksheet will help students understand that multiplying by 10 is as easy as adding a zero!


Hundreds Charts: These 2 worksheets will help your students understand patterns in the hundreds chart for multipication.


Write two multiplication equations for this array.


Write two multiplication equations for this array.


The iDentitY PR $*$ PeRtY states that anytime you multiply a number by $l$, the answer is the original number. Give two examples of this property.

Draw an array for: $7 \times 1=$


The art museum is offering a summer class for free. Each child can make I piece of pottery. The class will have 12 students. How many pieces of pottery will be made?


Write 2 multiplication equations for this array.

$$
\begin{gathered}
\square \square \square \square \square \square \\
5 \times 1=5 \\
\mid \times 5=5
\end{gathered}
$$

The iDentitY PR®PeRtY states that anytime you multiply a number by $l$, the answer is the original number. Give two examples of this property.

$$
\begin{aligned}
& 4 \times 1=4 \\
& 10 \times 1=10
\end{aligned}
$$

Draw an array for: $7 \times 1=7$


The art museum is offering a summer class for free. Each child can make I piece of pottery. The class will have 12 students. How many pieces of pottery will be made? Draw an array and write an equation to solve.

12 students $\times I$ piece of pottery $=12$ pieces of pottery


Write two multiplication equations for this array.


Draw an array for: $2 \times 9=$

Use the arrays to solve each equation. Look at the products. What pattern do you see?



$$
=
$$

00000
00000 2 x $\square$ $=$


The workman laid concrete pavers in my grandmother's garden. They laid them out as shown below. Use repeated addition and multiplication to find how many total pavers they used.


Complete the 2's counting pattern:
0, 2, ,--, ---, ---, ---, I2, ---, ---, ---, 20,


Write 2 multiplication equations for this array.


Use the arrays to solve each equation. Look at the products. What pattern do you see? All of the products are even numbers.


$$
2 \times 2=4
$$



$$
2 \times 4=8
$$

$$
000002 \times 5=10
$$

The workman laid concrete pavers in my grandmother's garden. They laid them out as shown below. Use repeated addition and multiplication to find how many total pavers they used.

$$
\begin{aligned}
& 2+2+2+2+2+2+2+2+2+2=20 \\
& 2 \times 10=20 \\
& 10 \times 2=20
\end{aligned}
$$

Complete the 2's counting pattern:

$$
0,2,4,6,8,10,12,14,16,18,20,22,24
$$




My friend and I went hiking on a rocky trail. I picked up 7 rocks for my collection. My friend Jake picked up three times as many as I did. Draw an array and write an equation to show how many rocks Jake picked up.

Complete the 3's counting pattern:

$$
\begin{aligned}
& 0,3 \text {, } \\
& \text {---- ---, ---, } 15 \\
& \text { 5, } \\
& \text {---, }
\end{aligned}
$$




The Commutative
Property does not work with this array because both factors are the same. $3 \times 3=9$
Why does the C®mmutative PR®PPRtY NOT work with this array? Explain and

The C©Mmutative PR©PCRtY states that two numbers can be multiplied in any order. Give two examples of this property using this array.

$5 \times 3=15$


Draw an array for: $3 \times 6=18$
My friend and I went hiking on a rocky trail. I picked up 7 rocks for my collection. My friend Jake picked up three times as many as I did. Draw an array and write an equation to show how many rocks Jake picked up.


I picked up 7 rocks and Jake picked up $7 \times 3=21$ rocks.

Complete the 3's counting pattern:

$$
0,3,6,9,12,15,18,21,24,27,30,33,36
$$



Use the arrays to solve each equation. Look at the products. What pattern do you see?

$\square$


4
x


4
x $\square$ $=$


Egg cartons contain 12 eggs each (I dozen). For the egg hunt, we colored 4 dozen eggs. Draw an array and write an equation to show how many eggs we colored.

Complete the '4's counting pattern:
0,4,
4, $\qquad$ 16,
---,
-- $\qquad$ 32, .---, .--, 4५,


Use the arrays to solve each equation． Look at the products．What pattern do you see？All of the products are even numbers．


$4 \times 5=20$
$4 \times 6=24$
믐ㅁㅁ
明明昭
昭昭


$$
4 \times 8=32
$$




$$
4 \times 7=28
$$

$$
4 \times 9=36
$$



Draw an array for： $4 \times 3=12$
Circle groups of $Ч$ ．Write a multiplication equation and repeated addition equation for this array． $4+4+4+4=16$


Egg cartons contain 12 eggs each（I dozen）．For the egg hunt，we colored $৬$ dozen eggs．Draw an array and write an equation to show how many eggs we colored．

$12 \times 4=48$ eggs

Complete the L＇s counting pattern：

$$
0,4,8,12,16,20,24,28,32,36, ~ Ч 0, ~ Ч Ч, ~ Ч 8 ~
$$



| Can you use the diStRibutive <br> PR®PeRtY to find the product? | Write two multiplication equations <br> for this array. |
| :--- | :--- |
|  |  |

It is 5 miles to the movie theater in our town. During the summer, we went and saw nine movies. Draw an array and write an equation to show how many miles we drove to the movie theater during the summer.

Complete the 5's counting pattern:

$$
0,5, \ldots, \ldots, 20, \ldots, \ldots, \ldots, \ldots, 45
$$



Can you use the distritbutive PR©PeRtY to find the product? $(5 \times 4)+(5 \times 2)=30$


The C®mmutative PR@PeRtY states that two numbers can be multiplied in any order. Give two examples of this property using this array.


$$
\begin{aligned}
& 5 \times 7=35 \\
& 7 \times 5=35
\end{aligned}
$$

Write two multiplication equations for this array. $5 \times \|=55$

$$
11 \times 5=55
$$




It is 5 miles to the movie theater in our town. During the summer, we went and saw nine movies. Draw an array and write an equation to show how many miles we drove to the movie theater during the summer.


5 miles $\times 9$ trips $=45$ miles.

Complete the 5's counting pattern:

$$
0,5,10,15,20,25,30,35,40,45,50,55,60
$$

$\qquad$


Circle groups of 6. Write a multiplication equation and repeated addition equation for this array.

Write two multiplication equations for this array.


Draw an array for: $6 \times 5=$


Can you use the distributive PR©PeRtY to find the product?


The gumballs at our store are 10 cents each. I want to buy enough to share with my 5 friends. Draw an array and write an equation to show how much money I will need to buy the gumballs.

Complete the 6's counting pattern:


Circle groups of 6. Write a multiplication equation and repeated addition equation for this array.

$6 \times 3=18 \quad 6+6+6=18$
Draw an array for: $6 \times 5=30$


Write two multiplication equations for this array.


$$
6 \times 4=24
$$

$$
4 \times 6=24
$$

Can you use the diStRibutive PR©PeRtY to find the product?

$$
(6 \times 3)+(6 \times 3)=36
$$



The gumballs at our store are 10 cents each. I want to buy enough to share with my 5 friends. Draw an array and write an equation to show how much money I will need to buy the gumballs.


6 people $\times 10$ cents $=60$ cents

Complete the 6's counting pattern:

$$
0,6,12,18,24,30,36,42,48,54,60,66,72
$$



Use the arrays to solve each equation. Look at the products. What pattern do you see?


Every day I ride my bike down to my Grandma's house. It takes me exactly 5 minutes to get there. Draw an array and write an equation to show how many minutes I spend each week riding to my Grandma's house.

Complete the 7's counting pattern:

$$
0,7, \ldots, \ldots, 28, \ldots, \ldots, 49, \ldots, \ldots, \ldots,
$$



Use the arrays to solve each equation． Look at the products．What pattern do you see？The products are even， odd，even，odd，even．

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$$
7 \times 2=14
$$

$$
7 \times 3=21
$$

$$
7 \times 4=28
$$

$$
7 \times 5=35
$$

$$
7 \times 6=42
$$

The C $\circledast m$ mutative PR $\circledast$ PeRtY states that two numbers can be multiplied in any order．Give two examples of this property using this array．

$$
\begin{aligned}
& \text { ロロロロロロロロ } \\
& 8 \times 7=56
\end{aligned}
$$

Draw an array for： $7 \times 6=42$

Every day I ride my bike down to my Grandma＇s house．It takes me exactly 5 minutes to get there．Draw an array and write an equation to show how many minutes I spend each week riding to my Grandma＇s house．


## 7 days $\times 5$ minutes $=35$ minutes

Complete the 7＇s counting pattern：

$$
0,7,21,28,28,35,42,49,56,63,70,77,84
$$



| Circle groups of 8. Write a <br> multiplication equation and repeated <br> addition equation for this array. | Draw an array for: $8 \times 4=$ |
| :--- | :--- |
|  |  |
|  |  |
|  |  |

Our class had a reading competition. The prize was a No Homework Pass for the rest of the year! Twelve students in our class read 8 books in one month. Draw an array and write an equation to show how many books we read all together.

Complete the 8's counting pattern:
0,8 ,
48,
64,
96


Circle groups of 8 . Write a multiplication equation and repeated addition equation for this array.

$$
8 \times 3=24 \quad 8+8+8=24
$$



The C®mmutative PR $\circledast$ PeRtY states that two numbers can be multiplied in any order. Give two examples of this property using this array.


$$
\begin{aligned}
& 8 \times 2=16 \\
& 2 \times 8=16
\end{aligned}
$$

Draw an array for: $8 \times 4=32$


Write two multiplication equations for this array.


Our class had a reading competition. The prize was a No Homework Pass for the rest of the year! Four students in our class read 8 books in one month. Draw an array and write an equation to show how many books we read all together.


Complete the 8's counting pattern:

$$
0,8,16,24,32,40,48,56,64,72,80,88,96
$$



Draw an array for: $9 \times 6=$
Circle groups of 9 . Write a multiplication equation and repeated addition equation for this array.



Can you use the distritbutive PR©PeRtY to find the product?


The P.E. Coach divided the classes into 4 teams of 9 students on each for the relay race. Draw an array and write an equation to show how many students were on the 4 teams all together.

Complete the I's counting pattern:

$$
0,9, \ldots, \ldots, \ldots, 45,
$$



08


Draw an array for: $9 \times 6=$


Can you use the distritbutive PR®PeRtY to find the product?

$$
(9 \times 5)+(9 \times 4)=81
$$

000000000 000000000 $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ ○○○○○○○○○ -00000000 ○○○○○○○○○ $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ ○○○○○○○○○ $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$

Circle groups of 9 . Write a multiplication equation and repeated addition equation for this array.

$9 \times 4=36 \quad 9+9+9+9=36$
Write two multiplication equations for this array.

$9 \times 3=27$
$3 \times 9=27$

The P.E. Coach divided the classes into 5 teams of 9 students on each for the relay race. Draw an array and write an equation to show how many students were on the 4 teams all together.


9 students $\times 5$ teams $=45$ students

Complete the 9 's counting pattern:

$$
0,9,18,27,36,45,54,63,72,81,90,99,108
$$



| Draw an array for: $10 \times 7=$ | Circle groups of 10 . Write a multiplication equation and repeated addition equation for this array. |
| :---: | :---: |
| Can you write the same multiplication equation for these two arrays? | Write two multiplication equations for this array. <br> 0000000000 0000000000 0000000000 |
| I bought a bag of my favorite candy at the store. Mom told me I could only eat 5 pieces each day. I counted the whole bag and there are 50 pieces of candy. How many days will this bag of candy last? Use repeated addition to show your answer. |  |
| Complete the 10 's counting pattern:$\text { 0, 10, ---, ---, --_, 50, ---, ---, ---, ---, ---, } 120$ |  |
| ©Teaching in the Heart of Florida |  |



| Draw an array for: $10 \times 7=$ | Circle groups of 10 . Write a <br> multiplication equation and repeated <br> addition equation for this array. |
| :--- | :--- |



Use the arrays to solve each equation. Look at the products. What pattern do you see?


Write two multiplication equations for this array.


Draw an array for: $11 \times 5=$
$\square$
During the month of June, it rained $Ч$ inches per day for $I I$ days in a row. Everything was so soggy! Draw an array and write an equation to show how many inches of rain fell during the II days.

Complete the II's counting pattern:
0 , II,

55,
 |21, $\qquad$


Use the arrays to solve each equation. Look at the products. What pattern do you see?


Write two multiplication equations
Draw an array for: $11 \times 5=55$ for this array.


$$
\begin{aligned}
& \| \times 3=33 \\
& 3 \times \|=33
\end{aligned}
$$



During the month of June, it rained $Ч$ inches per day for $I I$ days in a row. Everything was so soggy! Draw an array and write an equation to show how many inches of rain fell during the II days.


Il days $\times 4$ inches $=Ч Ч$ inches

Complete the II's counting pattern:

> 0, III, 22, 33, Ч૫, 55, 66, 77, 88, 99, IIO, I2I, I32


| Circle groups of I2. Write two <br> multiplication equations for this array. | Can you use the diftributive <br> PR@PeRtY to find the product? |
| :--- | :--- |
|  |  |

Each week my Grandpa gives me 12 dimes for sweeping his sidewalk. He says he is getting a real good deal. Draw an array and write an equation to show how much money I am earning each week for helping my Grandpa.

Complete the 12 's counting pattern:
0,12 ,
60,
120,


Circle groups of 12 . Write two multiplication equations for this array.


Draw an array for: $12 \times 4=$


Can you use the distributive PR®PeRtY to find the product?

$$
(12 \times 2)+(12 \times 3)=60
$$



Write two multiplication equations for this array. $12 \times 8=96$ $8 \times 12=96$ 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000 000000000000
000000000000

Each week my Grandpa gives me 12 dimes for sweeping his sidewalk. He says he is getting a real good deal. Draw an array and write an equation to show how much money I am earning each week for helping my Grandpa.
(dimes) $12 \times 10$ ( 1200 peer week

Complete the 12's counting pattern:

$$
0,12,24,36,48,60,72,84,96,108,120, I 32,14 Ч
$$

Name:


Find the unknown number by drawing an array and using the related fact.


$$
\begin{aligned}
& 24=\square \times 8 \\
& 24 \div 8=\square \\
& 36=9 \times \square \\
& \square \times 9=36 \\
& 72=\square \times 8 \\
& 72 \div 8=\square \\
& \hline 54=9 \times \square \\
& \square \times 9=54 \\
& 42=\square \times 7 \\
& 42 \div 8=\square
\end{aligned}
$$

Find the unknown number by drawing an array and using the related fact.


$$
\begin{aligned}
& 24=3 \times 8 \\
& 24 \div 8=3 \\
& 36=9 \times 4 \\
& 4 \times 9=36 \\
& 72=9 \times 8 \\
& 72 \div 8=9 \\
& 54=9 \times 6 \\
& 6 \times 9=54 \\
& 42=6 \times 7 \\
& 42 \div 7=6
\end{aligned}
$$

Name:


Show all multiplication equations that can be used
Show all repeated addition equations

| $\begin{aligned} & 00000000 \\ & 00000000 \\ & 00000000 \\ & 00000000 \end{aligned}$ |  |
| :---: | :---: |
| $\square \square \square \square \square \square \square \square \square$ $\square \square \square \square \square \square \square \square \square$ |  |
| $000 \bigcirc 00$ $00 \bigcirc \bigcirc 00$ 000000 $0 \bigcirc \bigcirc \bigcirc \bigcirc$ $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ |  |
|  |  |
| $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ <br> $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ <br> $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ |  |



Show all multiplication and repeated addition equations for each array.

| 00000000 00000000 00000000 00000000 | $\begin{aligned} & 4 \times 8=32 \\ & 8 \times 4=32 \\ & 8+8+8+8=32 \\ & 4+4+4+4+4+4+4+4=32 \end{aligned}$ |
| :---: | :---: |
|  | $\begin{aligned} & 9 \times 2=18 \\ & 2 \times 9=18 \\ & 9+9=18 \\ & 2+2+2+2+2+2+2+2+2=18 \end{aligned}$ |
| 000000 000000 <br> 000000 <br> 000000 <br> 000000 | $\begin{aligned} & 6 \times 5=30 \\ & 5 \times 6=30 \\ & 5+5+5+5+5+5=30 \\ & 6+6+6+6+6=30 \end{aligned}$ |
|  | $\begin{aligned} & 6 \times 8=48 \\ & 8 \times 6=48 \\ & 6+6+6+6+6+6+6+6=48 \\ & 8+8+8+8+8+8=48 \end{aligned}$ |
| ○○○○○○○ <br> $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ <br> $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ | $\begin{aligned} & 7 \times 3=21 \\ & 3 \times 7=21 \\ & 7+7+7=21 \\ & 3+3+3+3+3+3+3=21 \end{aligned}$ |

Name:


Multiplying by 10 's is easyl Just multiply the factors and add zero to the one's placel

| $\begin{gathered} 5 \times 9=\square \longrightarrow \text { Add } 0 \\ 5 \times 90= \end{gathered}$ | $\begin{gathered} 4 \times 4=\square \Longrightarrow \operatorname{Add} 0 \\ 4 \times 40= \end{gathered}$ |
| :---: | :---: |
| $\begin{gathered} 3 \times 5=\square \Longrightarrow \text { Add } 0 \\ 3 \times 50= \end{gathered}$ | $\begin{gathered} 8 \times 8=\square \Longrightarrow \operatorname{Add} 0 \\ 8 \times 80= \end{gathered}$ |
| $\begin{gathered} 7 \times 3=\square \Longrightarrow \text { Add } 0 \\ 7 \times 30= \end{gathered}$ | $\begin{gathered} 2 \times 5=\square \Longrightarrow \operatorname{Add} 0 \\ 2 \times 50= \end{gathered}$ |
| $\begin{gathered} 9 \times 2=\square \longrightarrow \text { Add } 0 \\ \quad 9 \times 20= \end{gathered}$ | $\begin{aligned} 1 \times 9=\square & \Longrightarrow \operatorname{Add} 0 \\ 1 \times 90 & = \end{aligned}$ |
| $\begin{array}{r} 6 \times 7=\square \Longrightarrow \text { Add } 0 \\ 6 \times 70= \end{array}$ | $\begin{gathered} 4 \times 7=\square \Longrightarrow \operatorname{Add} 0 \\ 4 \times 70= \end{gathered}$ |



Multiplying by 10 's is easy Just multiply the factors and add zero to the one's place



Shade all of the factors for the 3 's, 5 's, 7 's, and 9 's.

| $\times$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 2 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 3 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| 4 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| 5 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 6 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| 7 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |
| 8 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| 9 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

When you multiply odd numbers, the product is always odd. True or False? Give examples

When you add the digits for the products of 9 , what do you notice?

What is the product of $6 \times 9$ ? Use the Commutative Property to find the product of $9 \times 6$.

If you follow the row across for 3's and the column down for 3's, what do you notice?


Shade all of the factors for the 3's, 5 's, 7's, and 9 's.

| $\times$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 2 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 3 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| 4 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| 5 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 6 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| 7 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |
| 8 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| 9 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

When you multiply odd numbers, the product is always odd. True or False? Give examples

$$
\text { True. } 3 \times 7=21,5 \times 5=25,7 \times 9=63
$$

When you add the digits for the products of 9 , what do you notice?
They add up to 9 each time. $9 \times 2=18,1+8=9 ; 9 \times 3=27,2+7=9$

What is the product of $6 \times 9$ ? Use the Commutative Property to find the product of $9 \times 6$.
The product of $6 \times 9=54$. By using the Commutative Property, I know that $9 \times 6$ is also 54 .

If you follow the row across for 3's and the column down for 3's, what do you notice?
The products are $3,6,9,12,15,18,21,24,27,30$ for both rows and columns.



Shade all of the factors for the 2 's, 4 's, 6 's, 8 's and 10 's.

| $\times$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 2 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 3 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| 4 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| 5 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 6 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| 7 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |
| 8 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| 9 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

Deshawn says all of the products of 2 's, 4 's, 6 's, 8 's, and 10 's are even. Is this true or false?

What do you notice when you compare the products of the 2's and 4's?

Use your finger to follow the highlighted column for the factor 8. What is the skip counting pattern?

Write a rule that you see in the table.


Shade all of the factors for the 2 's, 4 's, 6 's, 8 's and 10 's.

| $\times$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 2 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 3 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 |
| 4 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 |
| 5 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| 6 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| 7 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 |
| 8 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| 9 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

Deshawn says all of the products of 2 's, 4 's, 6 's, 8 's, and 10 's are even. Is this true or false?

It's true. All of the shaded numbers are even.

What do you notice when you compare the products of the 2's and 4's?
The products are all even. The products of 4's are double the products of 2 's.
Example: the product of $2 \times 2=4$ and the product of $4 \times 2=8$.
Use your finger to follow the highlighted column for the factor 8 . What is the skip counting pattern?

$$
\text { 8, 16, 24, 32, 40, 48, 56, 64, 72, } 80
$$

Write a rule that you see in the table.
If you multiply 5 by an even number, the product ends in a zero. If you multiply 5 by an odd number, the product ends in a 5 .

