MULTIPLICATION FACT FLUENCY

EXPLORE THE 2s TIMES TABLE

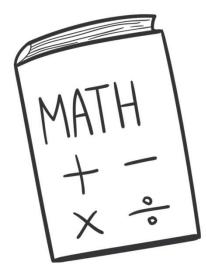
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TODAY'S OBJECTIVE

Today we will explore the 2s times table.

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TAKE OUT YOUR



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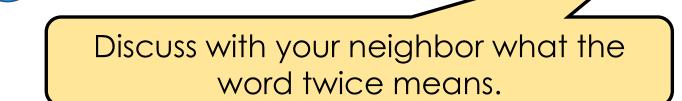
Today I want to share a story with you. I want you to try to imagine it.

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Every time she placed something in it, she would pull twice as much out.



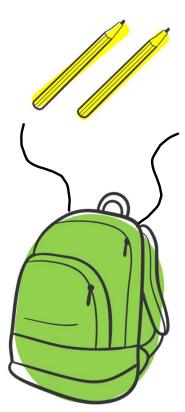


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The first day she placed <u>one</u> pencil in her bookbag and pulled out <u>two</u> pencils.





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The next day she placed <u>two</u> sneakers into the magic bookbag.

Later that day she pulled out <u>four</u> sneakers.



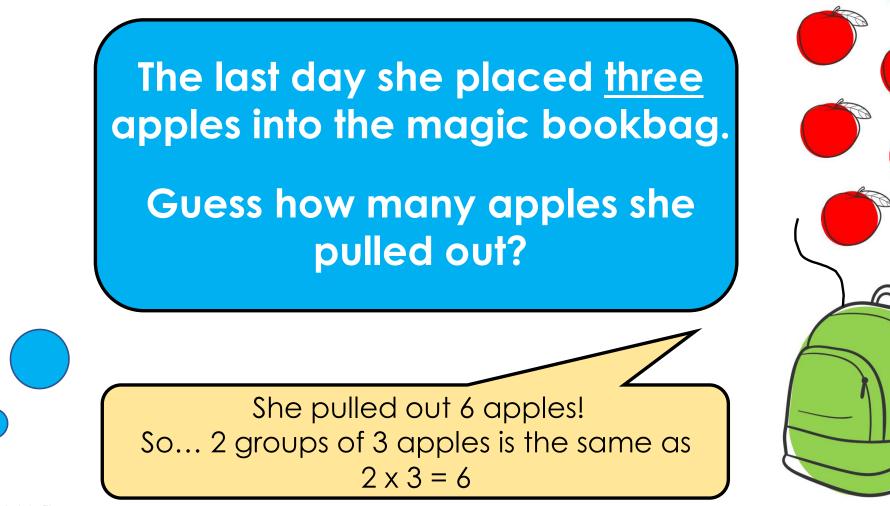




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Hmmm. I'm starting to see a pattern... So...2 groups of 2 equals 4 sneakers, that's two times as much.





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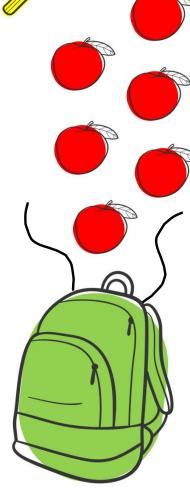
I wish I had a bookbag like that!

Now let's record what would happen if this pattern continued over time.

I'm going to fill in a 2s times table chart because the bookbag always creates twice the amount placed in it.



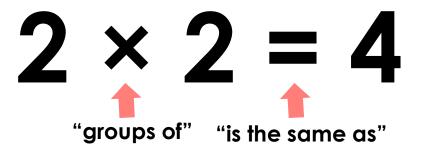




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We can read equations in sentence form. The symbols in an equation can be read as words.



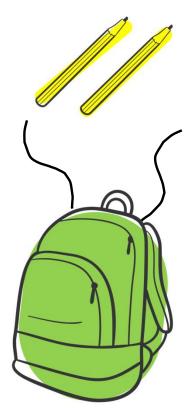
2 groups of 2 is the same as 4

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On Day #1, she placed one pencil in and pulled two pencils out. Watch as I fill in the table.

	Multiplication Fact	Addition Fact	Answer
[2 × 1	1 + 1	2
2s Times Table Chart			
e			
g			
S TC			
ue ue			
ii			
2s			



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WATCH ME FIRST On Day #2, she placed two sneakers in and pulled four sneakers out. I'll fill in the next row.

	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
ਦ [2 × 2	2 + 2	4
ha			
U			
ple			
Tal			
es			
<u> </u>			
2 Times Table Chart			





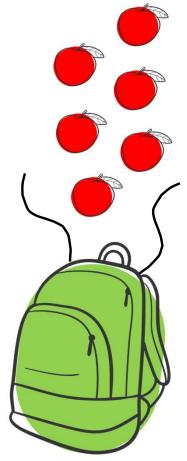


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On Day #3, she placed three apples in and pulled six apples out. I'll fill in the next now.

	Multiplication Fact	Addition Fact	Answer
ſ	2 × 1	1 + 1	2
÷	2 × 2	2 + 2	4
2 Times Table Chart	2 × 3	3 + 3	6
U 0			
q			
L			
les			
lin			
7			
ļ			



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Next, we'll work together to figure out what to record in the rest of the table.

	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
Ū			
2 Times Table Chart			
<u>I</u> a			
es			
<u>] 3</u>			
2			



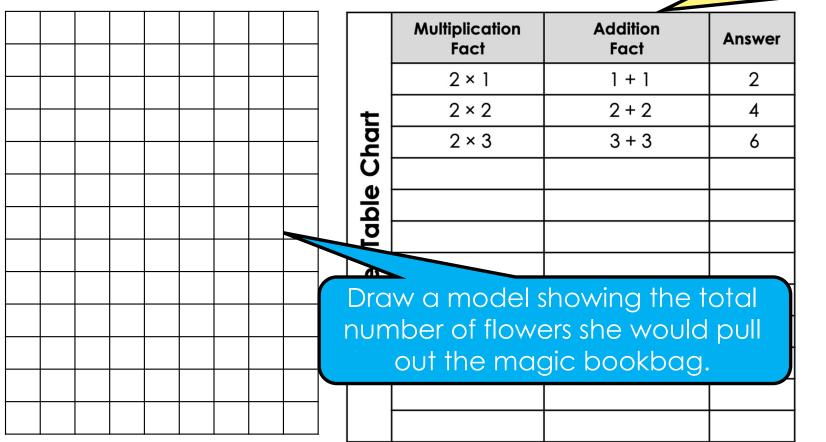
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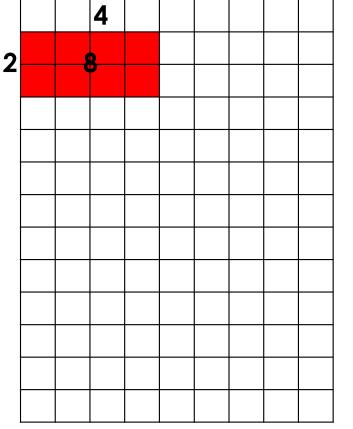
What would happen if my friend placed 4 flowers in the magic bookbag? Use the graph paper to create a model to solve. Label the model and fill in the table.



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She would pull out 2 groups of 4 or 8 flowers. Label the model and fill in the table.



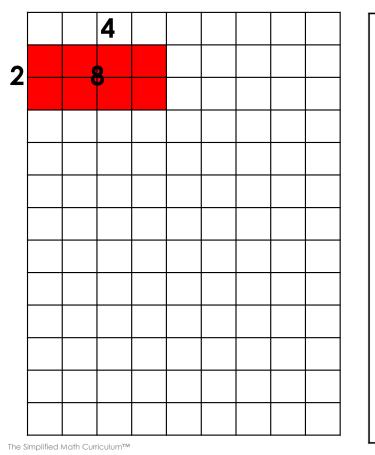
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
÷	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
2 Times Table Chart	2 × 4	4 + 4	8
ble			
<u>Ta</u>			
es			
<u>.</u>			
21			

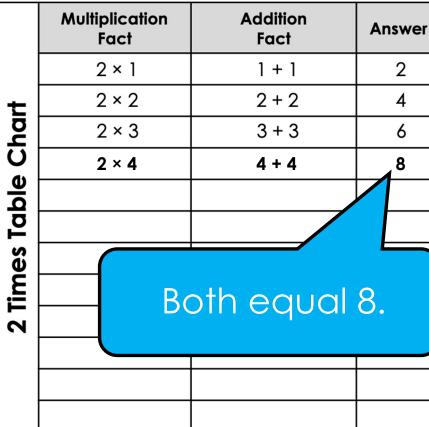


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How are 2 × 4 and 4 + 4 the same? Explain in your journal.

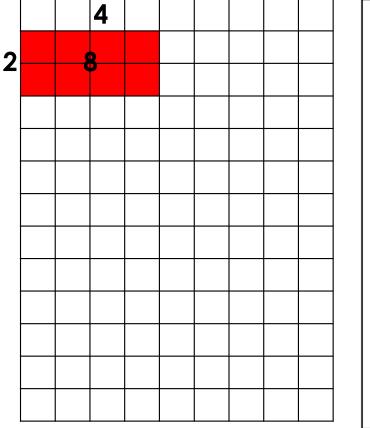


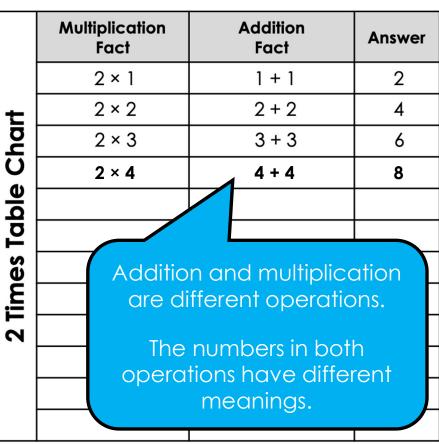






How are 2 × 4 and 4 + 4 different? Explain in your journal.



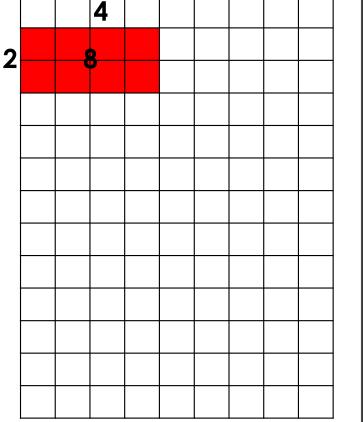


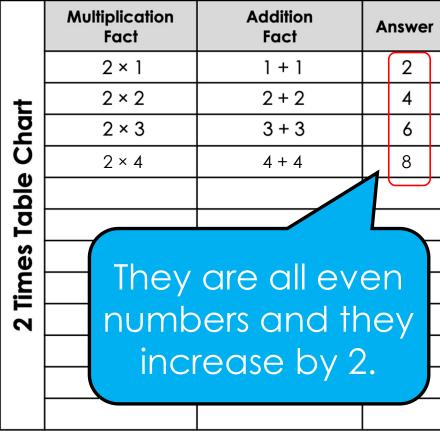


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What patterns do you notice with the answers in the chart? Explain in your journal.







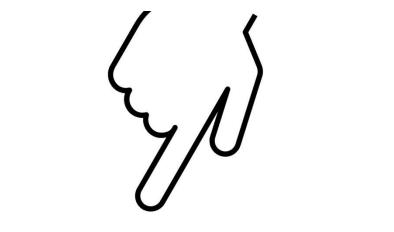
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CHECK - IN

What did you notice? Can you make a connection to anything else you already know? How? Do you have any questions?



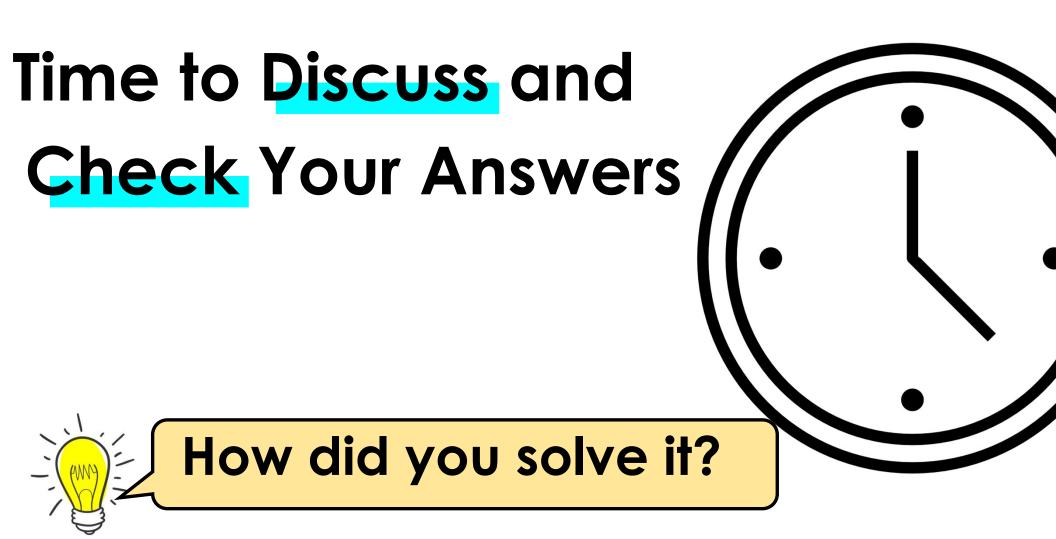
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Now It's "YOUR TURN" to Solve



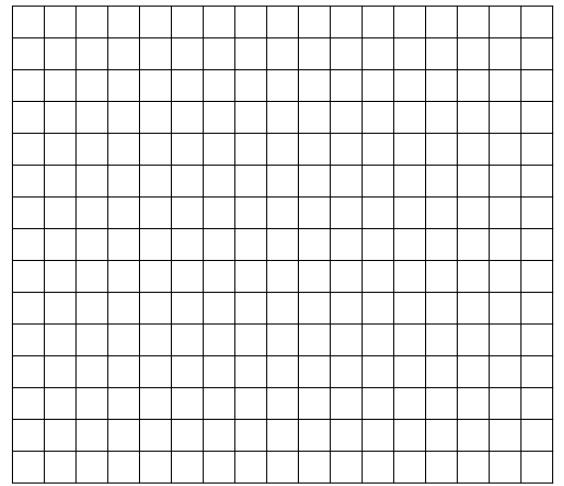
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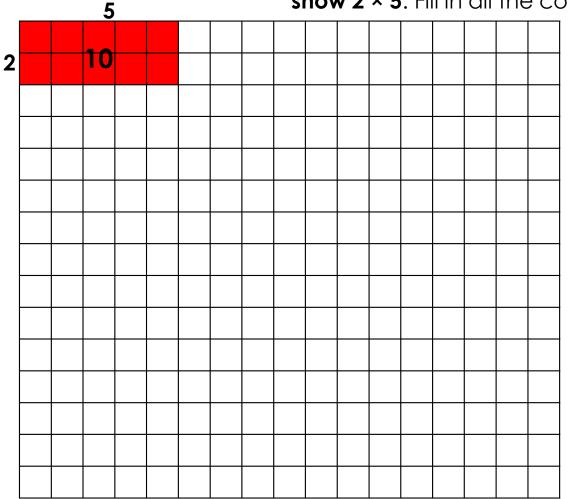
Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 5**. Fill in all the columns.



	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
ŧ	2 × 2	2 + 2	4
p P	2 × 3	3 + 3	6
2 Times Table Chart	2 × 4	4 + 4	8
ble ble	<mark>2 × 5</mark>		
ם	2 × 6		
es	2 × 7		
] <u>3</u>	2 × 8		
21	2 × 9		
	2 × 10		
	2 × 11		
	2 × 12		

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Use the graph paper to create a model to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 5**. Fill in all the columns.



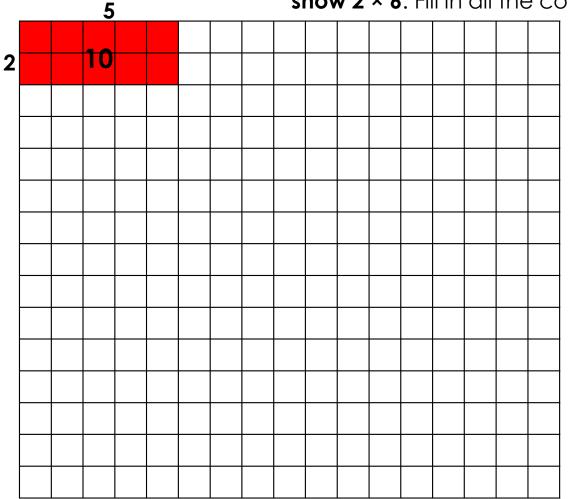
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
U	2 × 4	4 + 4	8
2 Times Table Chart	<mark>2 × 5</mark>	<mark>5 + 5</mark>	10
Ia	2 × 6		
es	2 × 7		
<u>.</u>	2 × 8		
21	2 × 9		
	2 × 10		
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 6**. Fill in all the columns.



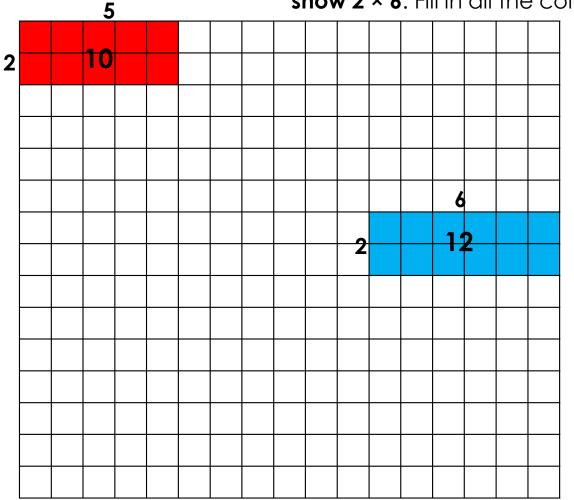
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
2 Times Table Chart	2 × 4	4 + 4	8
ble	2 × 5	5 + 5	10
Ia	<mark>2 × 6</mark>		
es	2 × 7		
<u>.</u>	2 × 8		
21	2 × 9		
	2 × 10		
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 6**. Fill in all the columns.



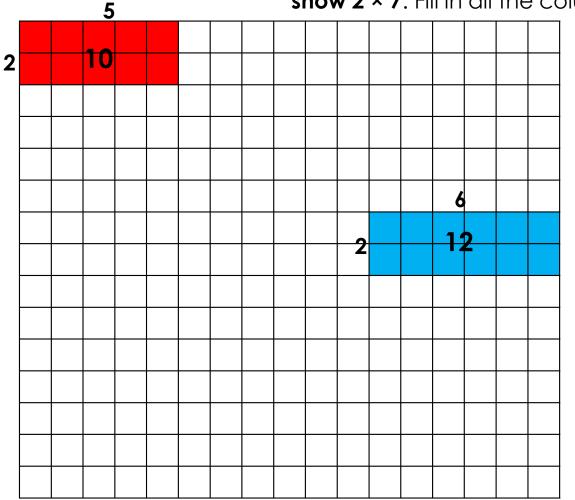
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
U	2 × 4	4 + 4	8
2 Times Table Chart	2 × 5	5 + 5	10
Τa	<mark>2 × 6</mark>	<mark>6 + 6</mark>	12
es	2 × 7		
<u>i</u>	2 × 8		
21	2 × 9		
	2 × 10		
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 7**. Fill in all the columns.



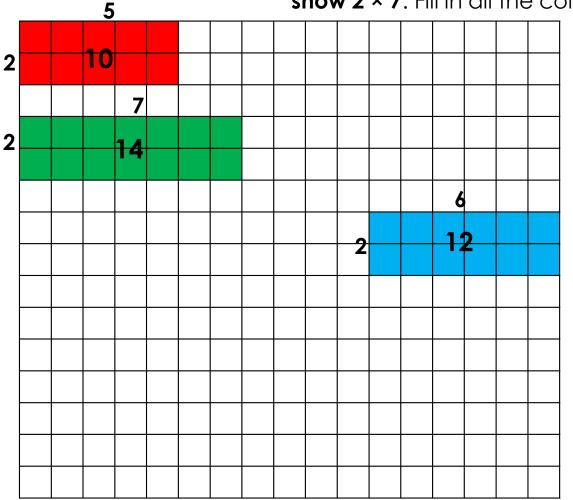
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
U	2 × 4	4 + 4	8
2 Times Table Chart	2 × 5	5 + 5	10
Τa	2 × 6	6 + 6	12
es	<mark>2 × 7</mark>		
im	2 × 8		
2 I	2 × 9		
	2 × 10		
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 7**. Fill in all the columns.



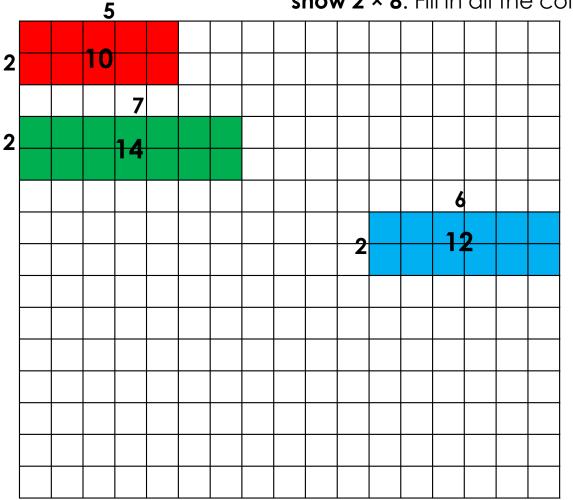
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
U	2 × 4	4 + 4	8
2 Times Table Chart	2 × 5	5 + 5	10
Ia	2 × 6	6 + 6	12
es	<mark>2 × 7</mark>	<mark>7 + 7</mark>	14
<u>]</u>	2 × 8		
21	2 × 9		
	2 × 10		
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 8**. Fill in all the columns.



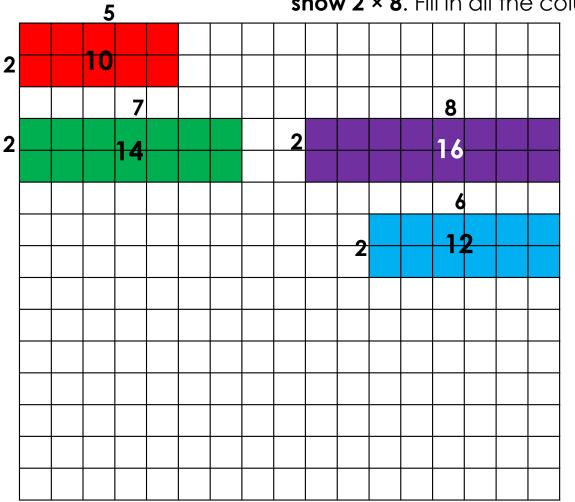
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
2 Times Table Chart	2 × 4	4 + 4	8
ble	2 × 5	5 + 5	10
Ia	2 × 6	6 + 6	12
es	2 × 7	7 + 7	14
<u> </u>	<mark>2 × 8</mark>		
21	2 × 9		
	2 × 10		
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 8**. Fill in all the columns.



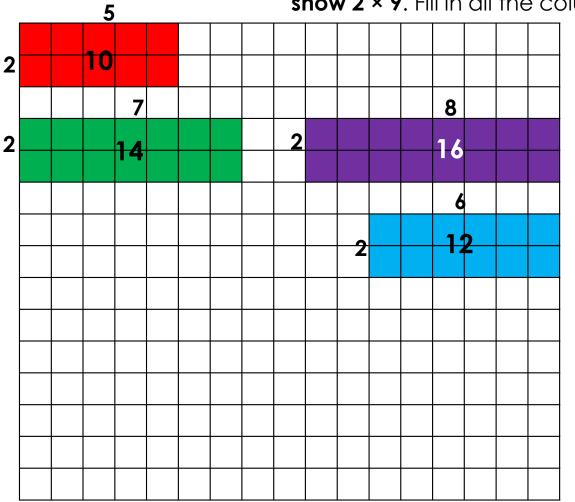
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
U	2 × 4	4 + 4	8
ble	2 × 5	5 + 5	10
Ia	2 × 6	6 + 6	12
es	2 × 7	7 + 7	14
2 Times Table Chart	<mark>2 × 8</mark>	<mark>8 + 8</mark>	16
21	2 × 9		
	2 × 10		
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 9**. Fill in all the columns.



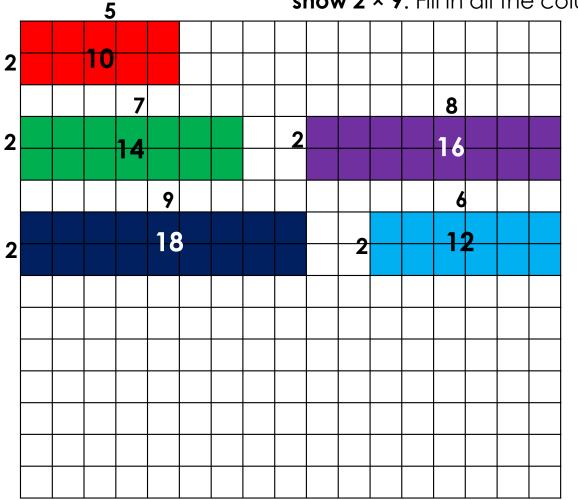
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
U	2 × 4	4 + 4	8
2 Times Table Chart	2 × 5	5 + 5	10
Τa	2 × 6	6 + 6	12
es	2 × 7	7 + 7	14
im	2 × 8	8 + 8	16
2 I	<mark>2 × 9</mark>		
	2 × 10		
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 9**. Fill in all the columns.



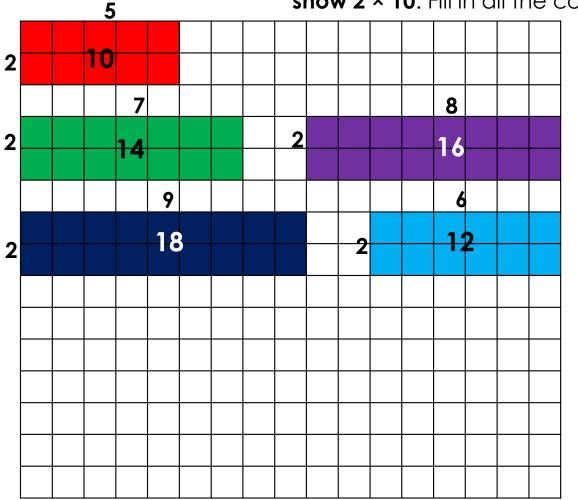
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
U	2 × 4	4 + 4	8
2 Times Table Charl	2 × 5	5 + 5	10
Ia	2 × 6	6 + 6	12
es	2 × 7	7 + 7	14
<u>.</u>	2 × 8	8 + 8	16
21	<mark>2 × 9</mark>	<mark>9 + 9</mark>	18
	2 × 10		
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 10**. Fill in all the columns.



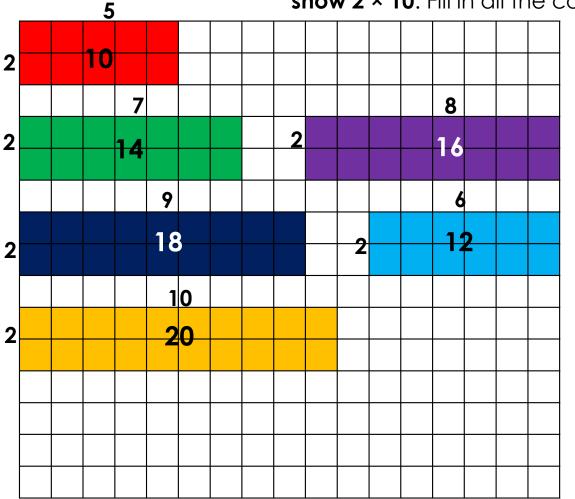
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
U	2 × 4	4 + 4	8
2 Times Table Charl	2 × 5	5 + 5	10
Ta	2 × 6	6 + 6	12
es	2 × 7	7 + 7	14
im	2 × 8	8 + 8	16
2 1	2 × 9	9 + 9	18
	<mark>2 × 10</mark>		
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 10**. Fill in all the columns.



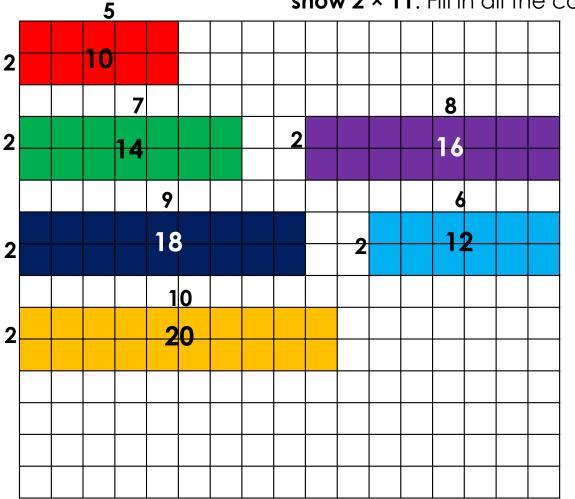
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
U	2 × 4	4 + 4	8
2 Times Table Chart	2 × 5	5 + 5	10
Ia	2 × 6	6 + 6	12
es	2 × 7	7 + 7	14
<u>i</u>	2 × 8	8 + 8	16
21	2 × 9	9 + 9	18
	<mark>2 × 10</mark>	<mark>10 + 10</mark>	20
	2 × 11		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 11**. Fill in all the columns.



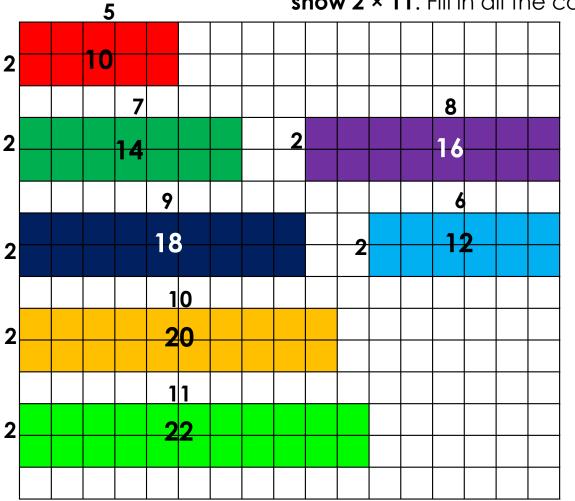
	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
2 Times Table Chart	2 × 4	4 + 4	8
ble	2 × 5	5 + 5	10
Ta	2 × 6	6 + 6	12
es	2 × 7	7 + 7	14
.	2 × 8	8 + 8	16
21	2 × 9	9 + 9	18
	2 × 10	10 + 10	20
	<mark>2 × 11</mark>		
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 11**. Fill in all the columns.



	Multiplication Fact	Addition Fact	Answer
	2 × 1	1 + 1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
U	2 × 4	4 + 4	8
2 Times Table Chart	2 × 5	5 + 5	10
Ia	2 × 6	6 + 6	12
es	2 × 7	7 + 7	14
<u>]</u>	2 × 8	8 + 8	16
21	2 × 9	9 + 9	18
	2 × 10	10 + 10	20
	<mark>2 × 11</mark>	<mark>11 + 11</mark>	<mark>22</mark>
	2 × 12		

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YOUR TURN

Problem

Use the graph paper to create models to solve the bolded multiplication facts in the chart. Draw and label a model to **show 2 × 12**. Fill in all the columns.

-4

	Multiplication Fact	Addition Fact	Answer
	2 × 1	1+1	2
t	2 × 2	2 + 2	4
ha	2 × 3	3 + 3	6
2 Times Table Chart	2 × 4	4 + 4	8
ble	2 × 5	5 + 5	10
Ia	2 × 6	6 + 6	12
es	2 × 7	7 + 7	14
<u>.</u>	2 × 8	8 + 8	16
21	2 × 9	9 + 9	18
	2 × 10	10 + 10	20
	2 × 11	11 + 11	22
	<mark>2 × 12</mark>		

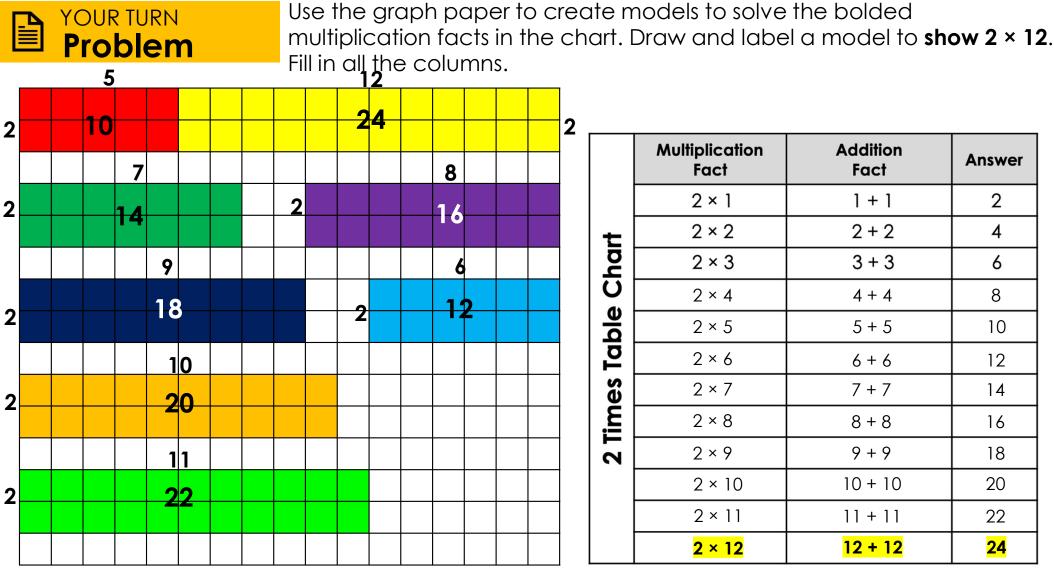
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YOUR TURN

Problem



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What strategy can you use to solve the 2s times table?



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What strategy can you use to solve the 2s times table?

Answers May Vary

I can use my addition doubles facts. I can also skip count by two to find them.



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