MULTIPLICATION FACT FLUENCY

EXPLORE THE 7s TIMES TABLE LESSON 10

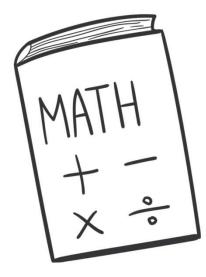
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TODAY'S OBJECTIVE

Today we will explore the distributive property as a strategy to solve the 7s times table.

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TAKE OUT YOUR



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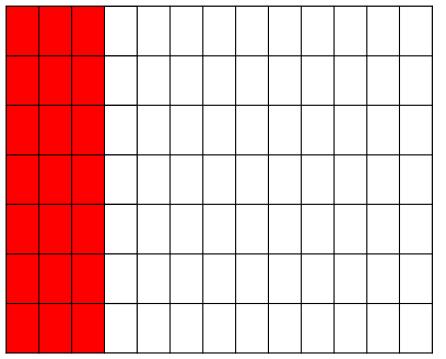


Today, we will use the 5s and 2s facts to find the products of the 7s facts.

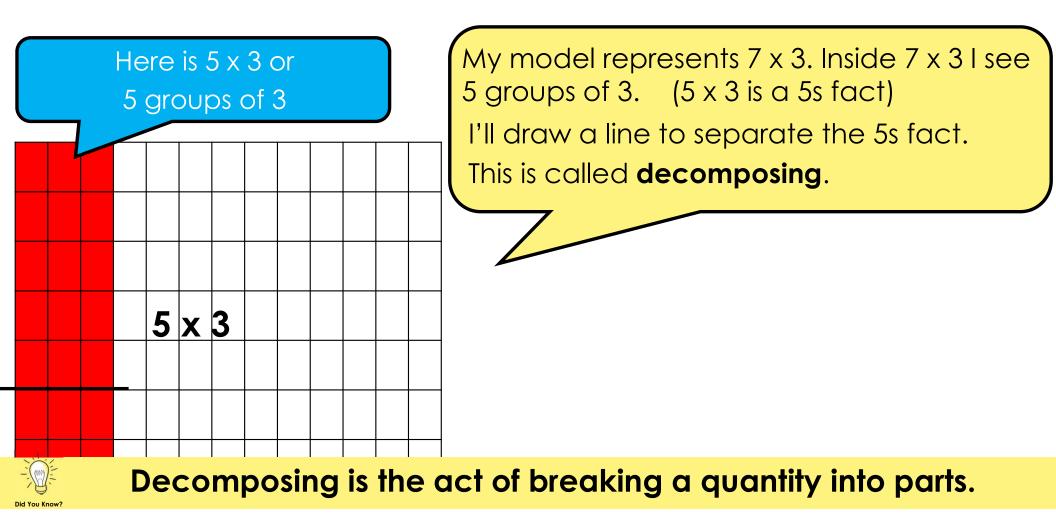
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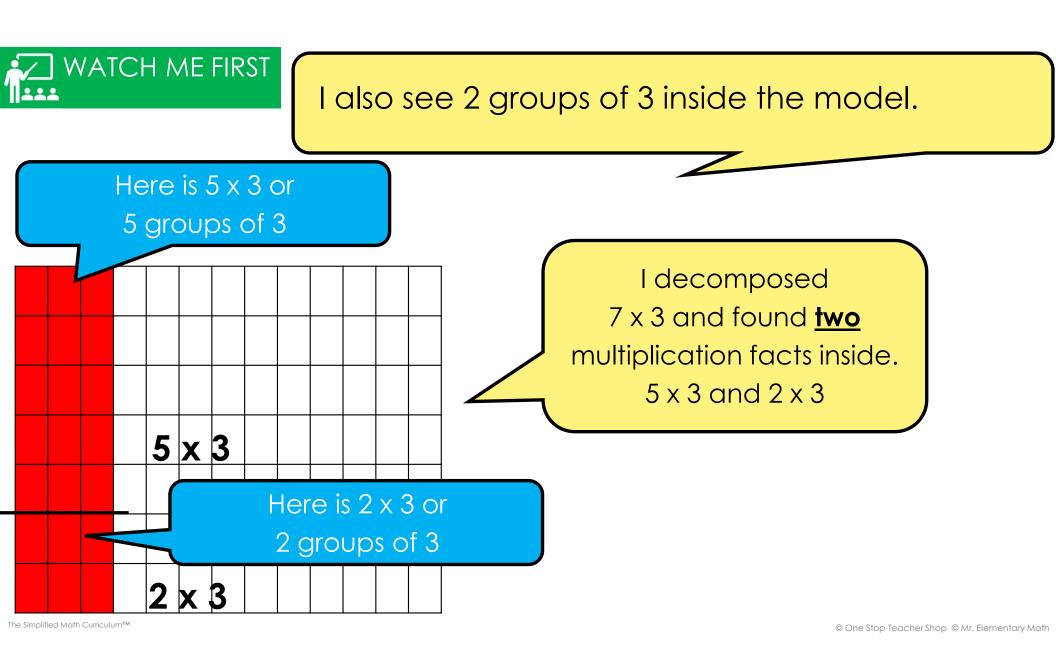


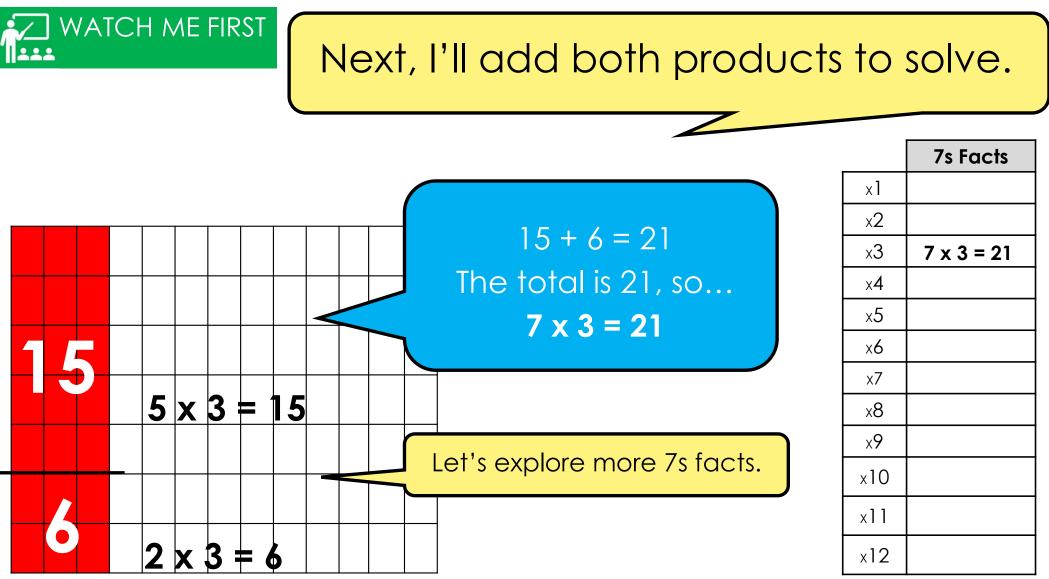
I want to find the product of **7 x 3**. I'll start by creating a model.



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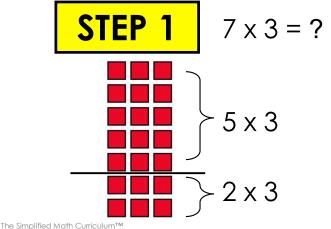


Let's **Review**!

We can solve 7s facts by using the related 5s and 2s facts:

- st Decompose the 7s fact into the related 5s and 2s facts.
- 2nd Find the product of both facts.
- 3rd Solve the 7s fact by adding both products.

EXAMPLE: Find the product of **7 x 3**.



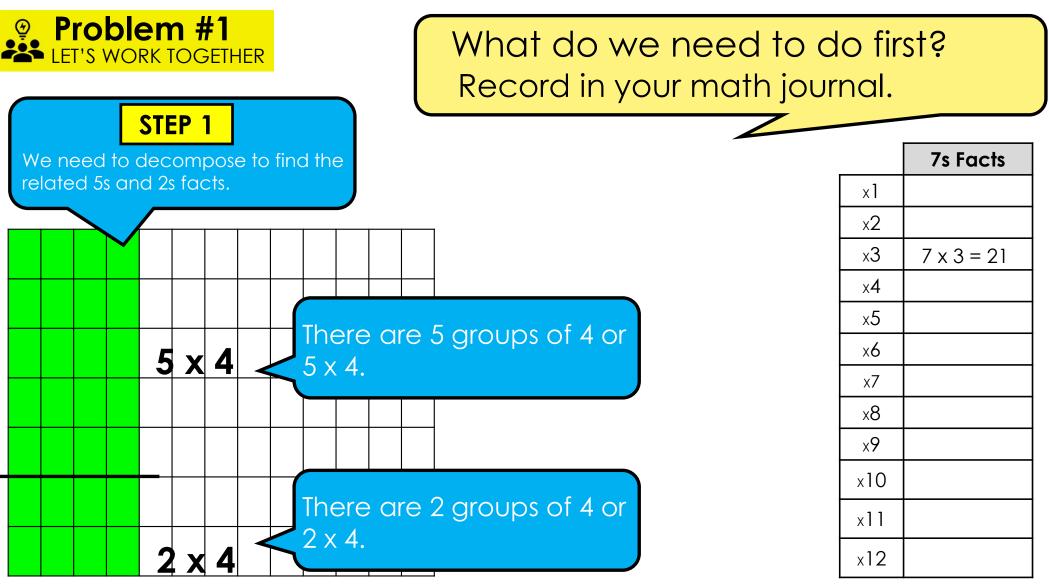
STEP 2STEP 3 $7 \times 3 = (5 \times 3) + (2 \times 3)$ $7 \times 3 = (5 \times 3) + (2 \times 3)$ 156 $7 \times 3 = 21$



Find the product of **7** × **4**. Draw a model in your math journal.

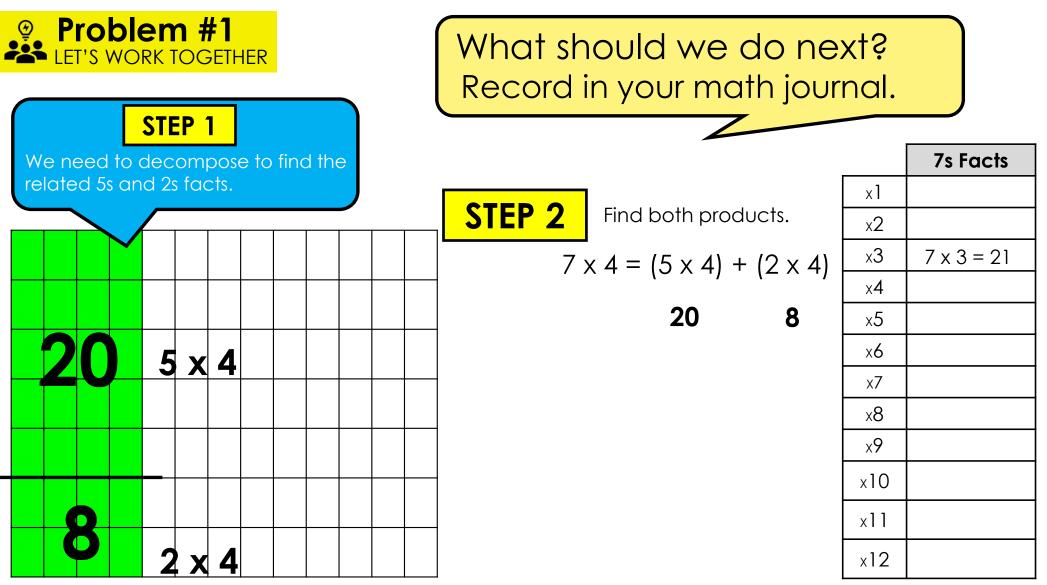
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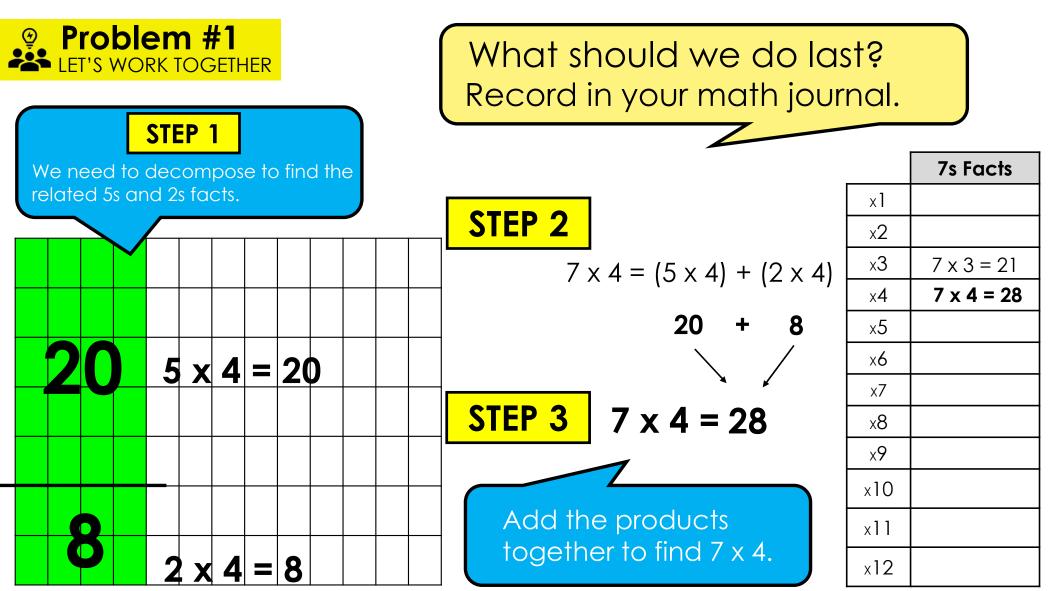
	7s Facts
x1	
x2	
x3	7 x 3 = 21
x4	
x5	
x6	
x7	
x8	
x9	
x10	
x11	
x12	



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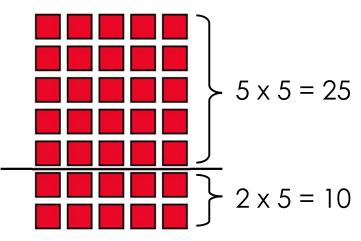
Did you know, when we decompose a multiplication fact into 2 separate facts and add the products, we are using the **distributive property**?

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Vocabulary Highlight

The **distributive property** states, multiplying a sum by a given number is the same as multiplying each addend by the number and then adding the products.

EXAMPLE: SOLVE 7 x 5

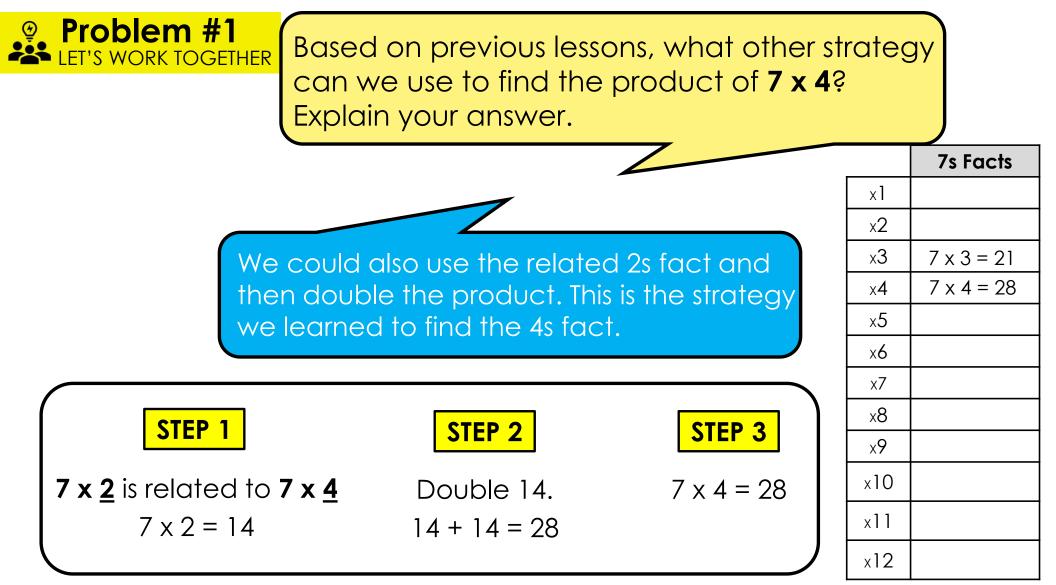


7 x 5 =
$$(5 \times 5) + (2 \times 5)$$

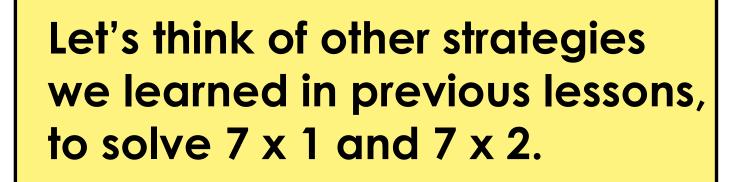
25 + 10
7 x 5 = 35

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It's important to remember that **we can use different strategies to solve problems**.



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Based on previous lessons, what strategy can we use to find the product of **7 x 1**? Explain.

We can use the **identity property** of multiplication to solve. Any number multiplied by 1 equals that number. So... $7 \times 1 = 7$ and $1 \times 7 = 7$.

	7s Facts
x1	7 x 1 = 7
x2	
x3	7 x 3 = 21
x4	7 x 4 = 28
x5	
x6	
x7	
x8	
x9	
x10	
x11	
x12	

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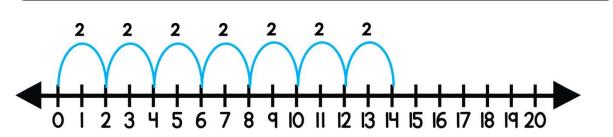


Based on previous lessons, what strategy can we use to find the product of **7 x 2**? Explain.

We can use the doubling strategy we learned to find the 2s fact.

7 + 7 = 14 then, $7 \ge 2 = 14$ and, $2 \ge 7 = 14$

We can also skip count by 2s.



	7s Facts
x1	7 x 1 = 7
x2	7 x 2 = 14
x3	7 x 3 = 21
x4	7 x 4 = 28
x5	
x6	
x7	
x8	
x 9	
x10	
x11	
x12	

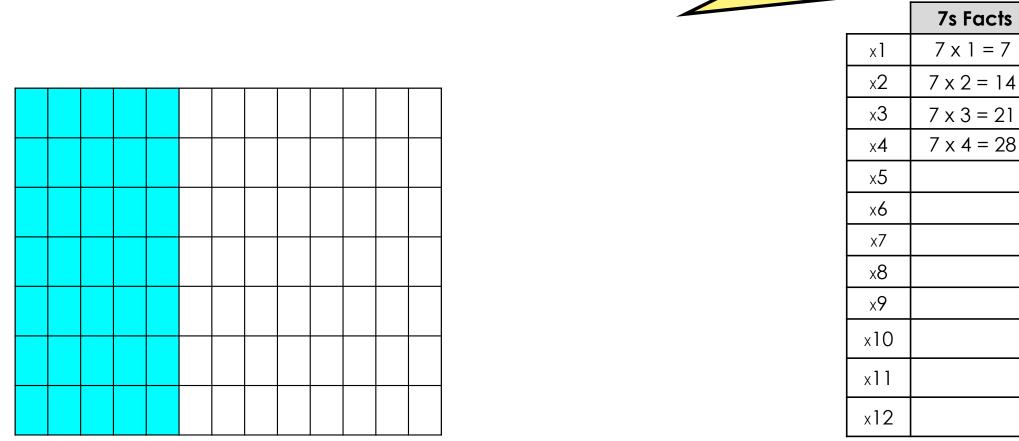
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LET'S DO <u>ONE MORE TOGETHER</u>...

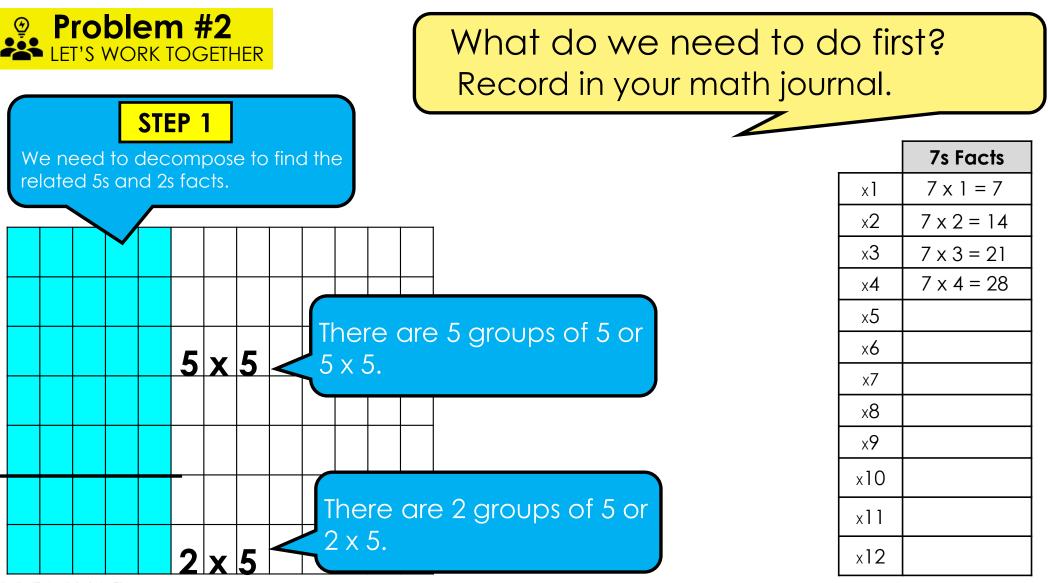
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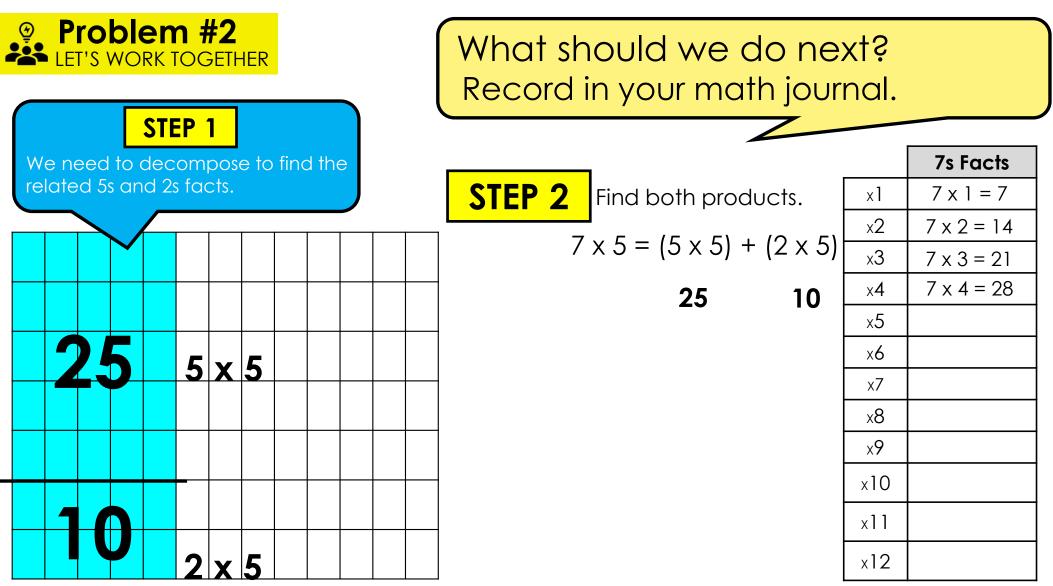
Find the product of **7** × **5** using the **distributive property**. Draw a model in your math journal.

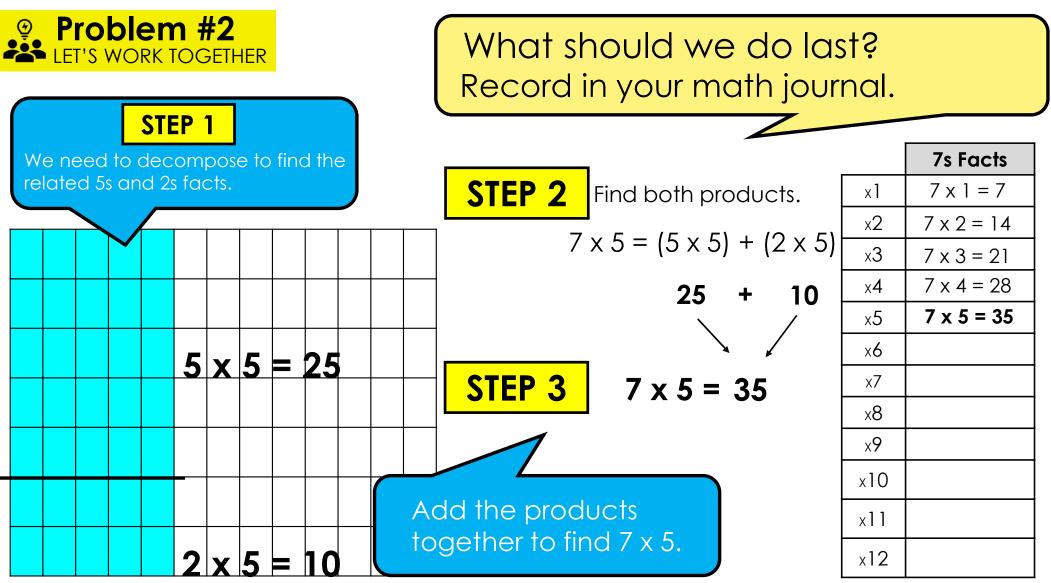


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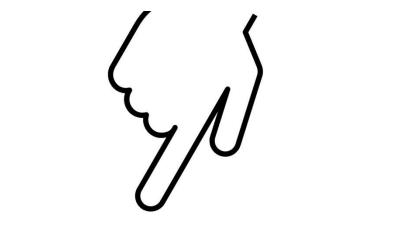
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CHECK - IN

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

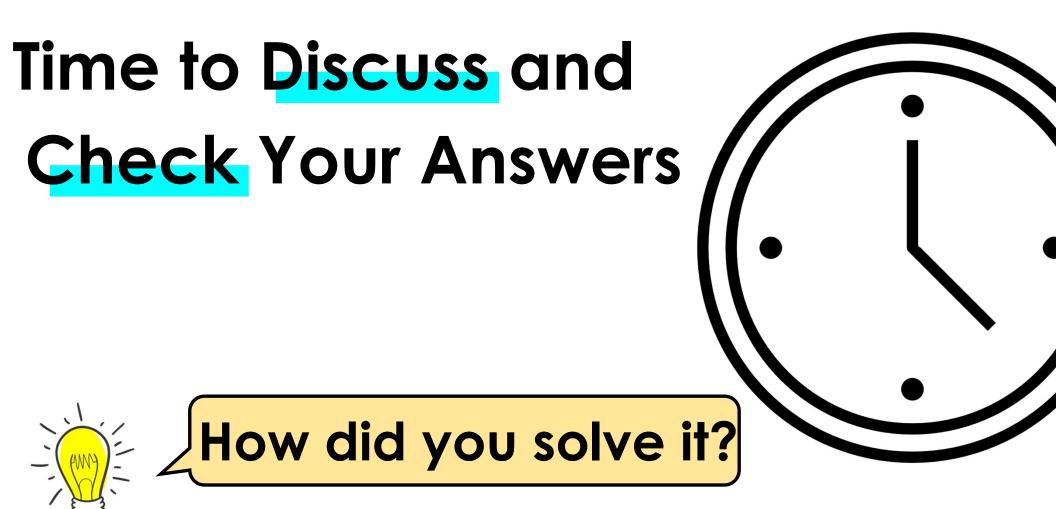




Now It's "YOUR TURN" to Solve



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Use the distributive property to find the product of 7×6 . Fill in the chart.

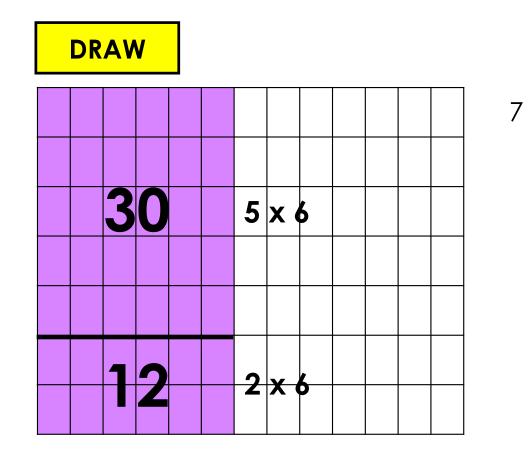


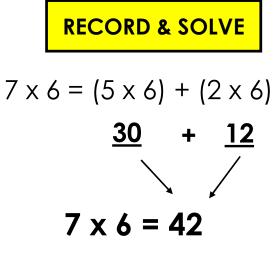
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Use the distributive property to find the product of 7×6 . Fill in the chart.

	7s Facts
x1	7 x 1 = 7
x2	7 x 2 = 14
x3	7 x 3 = 21
x4	7 x 4 = 28
×5	7 x 5 = 35
×6	7 x 6 = 42
x7	
x8	
x9	
x10	
x11	
x12	





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Use the distributive property to find the product of 7 \times 7. Fill in the chart.

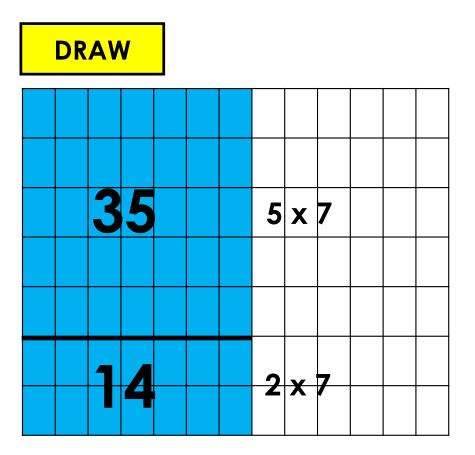


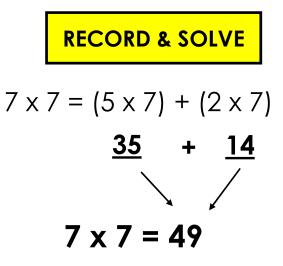
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Use the distributive property to find the product of 7×7 . Fill in the chart.

	7s Facts
x1	7 x 1 = 7
x2	7 x 2 = 14
x3	7 x 3 = 21
x4	7 x 4 = 28
x5	7 x 5 = 35
x6	7 x 6 = 42
x7	7 x 7 = 49
x8	
x9	
x10	
x11	
x12	





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Use the distributive property to find the product of 7×8 . Fill in the chart.

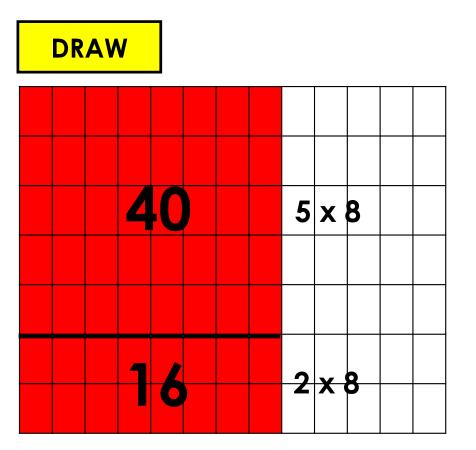


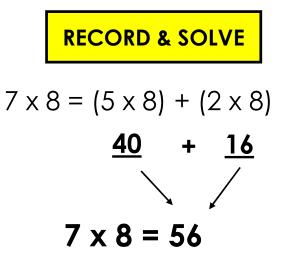
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Use the distributive property to find the product of 7×8 . Fill in the chart.

	7s Facts
x1	7 x 1 = 7
x2	7 x 2 = 14
x3	7 x 3 = 21
x4	7 x 4 = 28
×5	7 x 5 = 35
x6	7 x 6 = 42
x7	7 x 7 = 49
x8	7 x 8 = 56
x9	
x10	
x11	
x12	





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Use the distributive property to find the product of 7×9 . Fill in the chart.

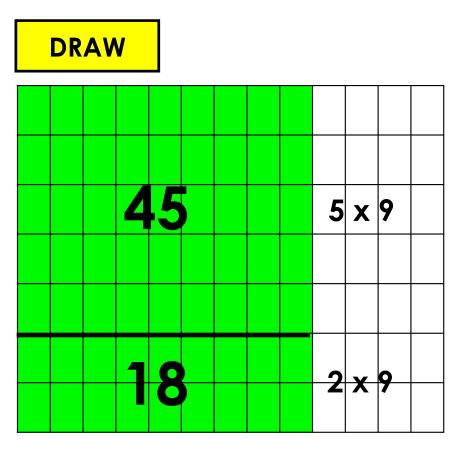


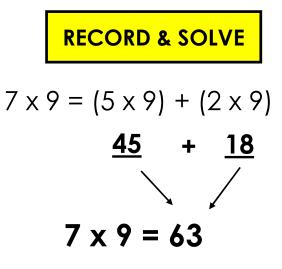
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Use the distributive property to find the product of 7×9 . Fill in the chart.

	7s Facts
x1	7 x 1 = 7
x2	7 x 2 = 14
x3	7 x 3 = 21
x4	7 x 4 = 28
×5	7 x 5 = 35
x6	7 x 6 = 42
x7	7 x 7 = 49
x8	7 x 8 = 56
x9	7 x 9 = 63
x10	
x11	
x12	





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Use the distributive property to find the product of 7 \times 10. Fill in the chart.

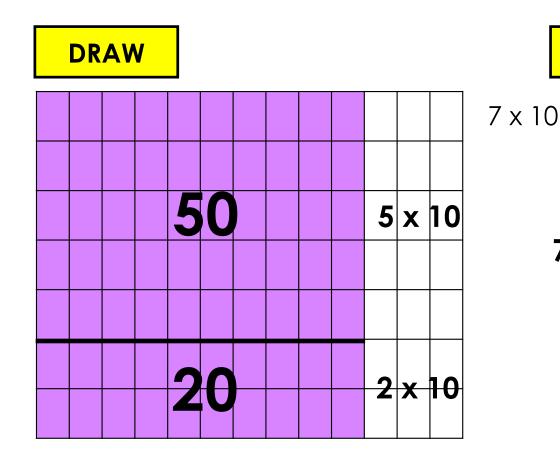


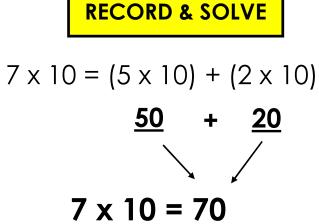
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Use the distributive property to find the product of 7×10 . Fill in the chart.

	7s Facts
x1	7 x 1 = 7
x2	7 x 2 = 14
x3	7 x 3 = 21
x4	7 x 4 = 28
x5	7 x 5 = 35
x6	7 x 6 = 42
х7	7 x 7 = 49
x8	7 x 8 = 56
x9	7 x 9 = 63
x10	7 x 10 = 70
x11	
x12	





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Use the distributive property to find the product of 7 \times 11. Fill in the chart.

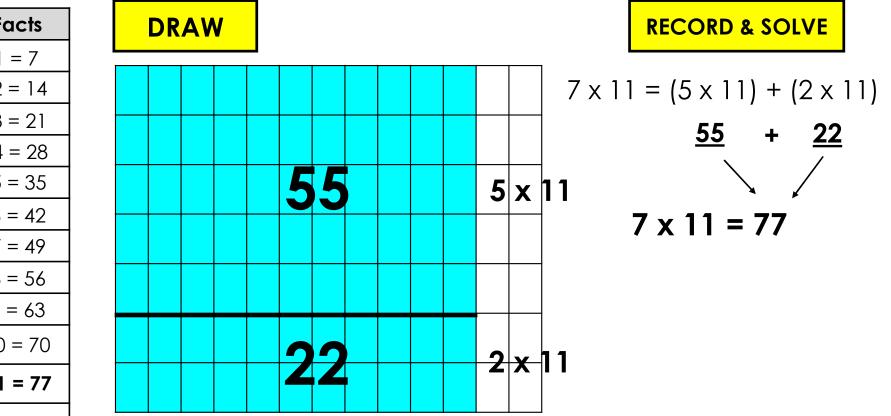


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Use the distributive property to find the product of 7×11 . Fill in the chart.

	7s Facts
x1	7 x 1 = 7
x2	7 x 2 = 14
x3	7 x 3 = 21
x4	7 x 4 = 28
x5	7 x 5 = 35
x6	7 x 6 = 42
x7	7 x 7 = 49
x8	7 x 8 = 56
x9	7 x 9 = 63
x10	7 x 10 = 70
x11	7 x 11 = 77
x12	



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Use the distributive property to find the product of 7 \times 12. Fill in the chart.

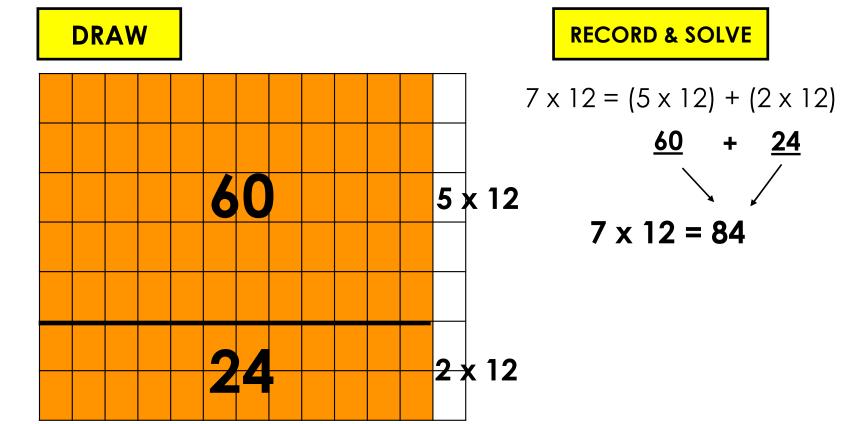


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Use the distributive property to find the product of 7×12 . Fill in the chart.

	7s Facts
x1	7 x 1 = 7
x2	7 x 2 = 14
x3	7 x 3 = 21
x4	7 x 4 = 28
x5	7 x 5 = 35
x6	7 x 6 = 42
x7	7 x 7 = 49
x8	7 x 8 = 56
x9	7 x 9 = 63
x10	7 x 10 = 70
x11	7 x 11 = 77
x12	7 x 12 = 84



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Explain the strategy we used to solve the 7 times table.



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Explain the strategy we used to find the product of a 7s times table fact.

Answers May Vary

We used the distributive property to solve. We can add the products of the related 5s and 2s facts. By adding these together, we will get the product of the 7s fact.



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