

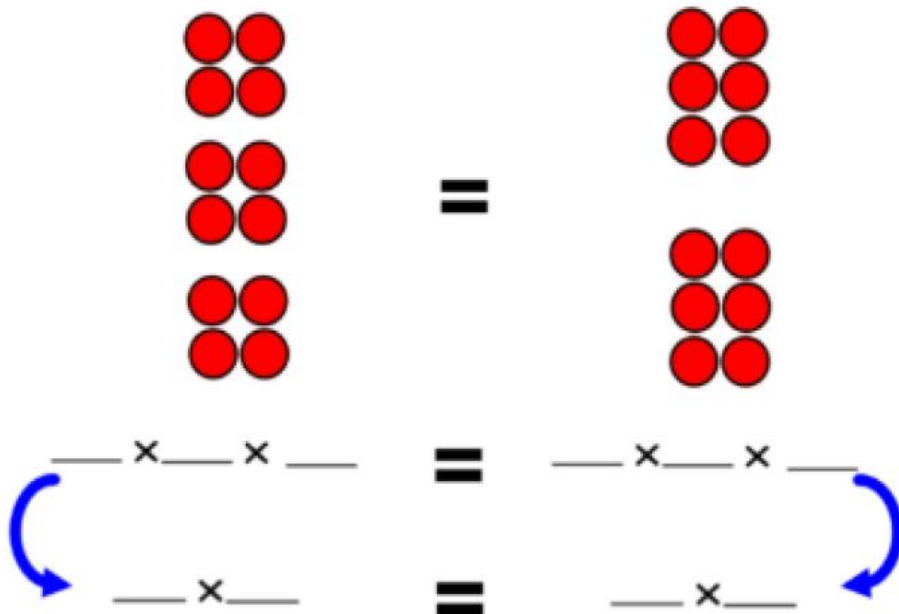


## Challenge 1

### Varied Fluency

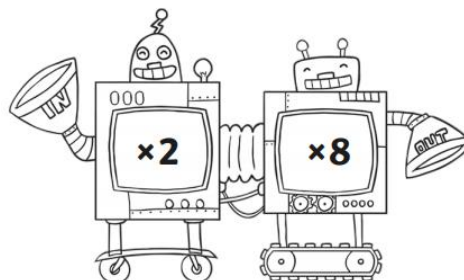
1. Complete this table.

	
I have _____ lots of _____ 3 times.	I have _____ lots of _____ twice.
_____ x _____ x _____	_____ x _____ x _____
$8 \times 3$	$12 \times \underline{\hspace{2cm}}$



3. Put these numbers through the multiplication machine.

- a. 5
- c. 2
- b. 3
- d. 4



## Challenge 2

### Reasoning and Problem Solving

Ella the Egyptian has been looking at this calculation.

$$6 \times 3 \times 5 > 3 \times 5 \times 6$$



6 x 3 x 5 is larger because the first calculation starts with a 6 which is larger than the first number in the second calculation.

Do you agree with Ella?  
Explain why/ why not.

## Challenge 3

### Reasoning and Problem Solving

Make the target number 30 by using three of the digits below.

7	5	3	4	6	2
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$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} = 30$$

## Extra Challenge

### Reasoning and Problem Solving

Make the target number 84 by using three of the digits below.

7	5	3	4	6	2
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$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} = 84$$

## Challenge 2

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## Extra Challenge

### Reasoning and Problem Solving

Make the target number 84 by using three of the digits below.

7	5	3	4	6	2
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$$\underline{\quad} \times \underline{\quad} \times \underline{\quad} = 84$$