

Mathematics

# Unit 3 Multiplication and division

## Dividing using knowledge of multiples.

Miss Thomas



**OAK**  
NATIONAL  
ACADEMY

# Lesson agenda

Partitioning numbers to divide mentally.



**Talk Task**



Using known multiplication facts to divide mentally.

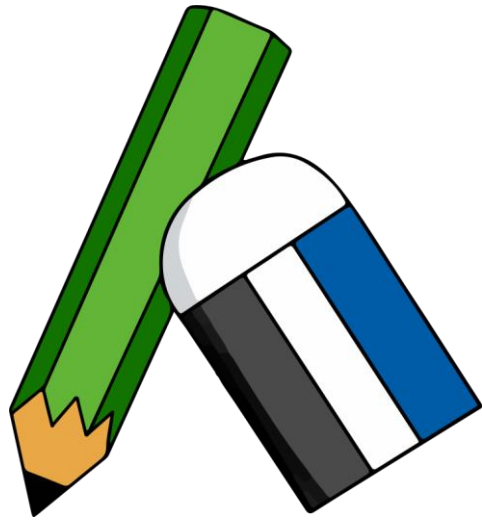


**End of lesson quiz**



# You will need...

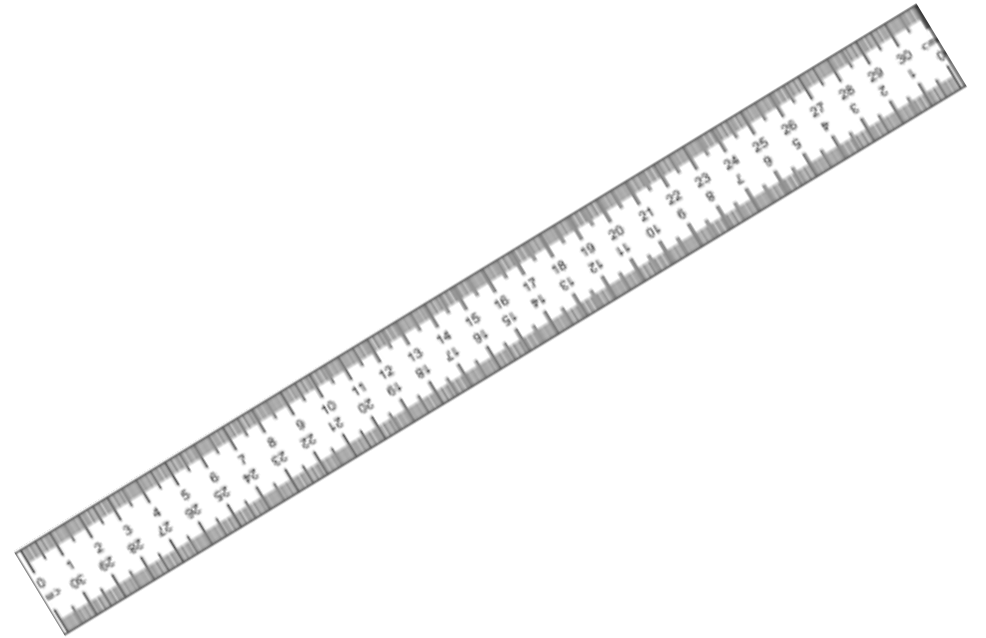
Item 1



Item 2



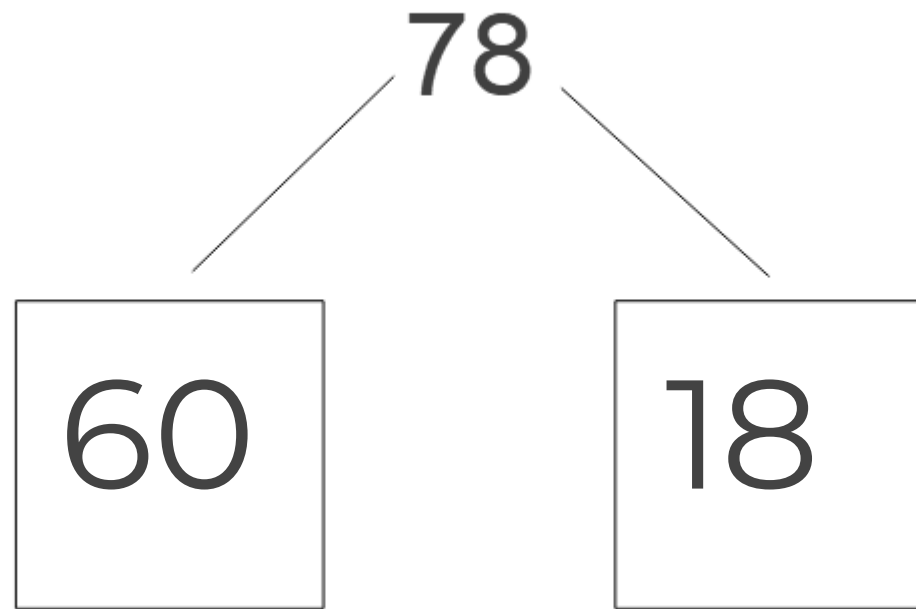
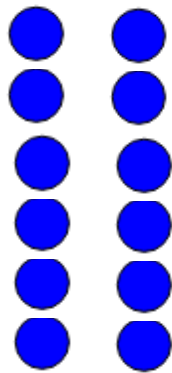
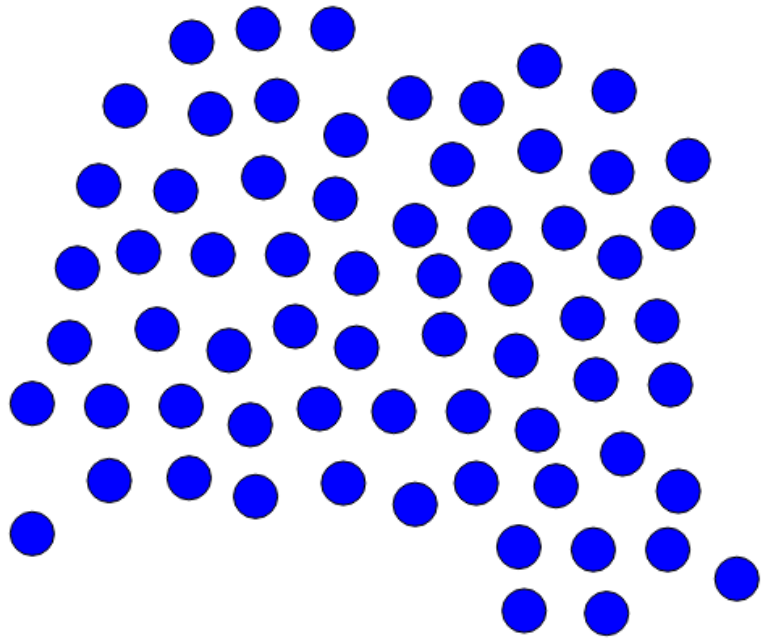
Item 3



How many groups of 6 are in 78?

$$78 \div 6 = \boxed{\phantom{00}}$$

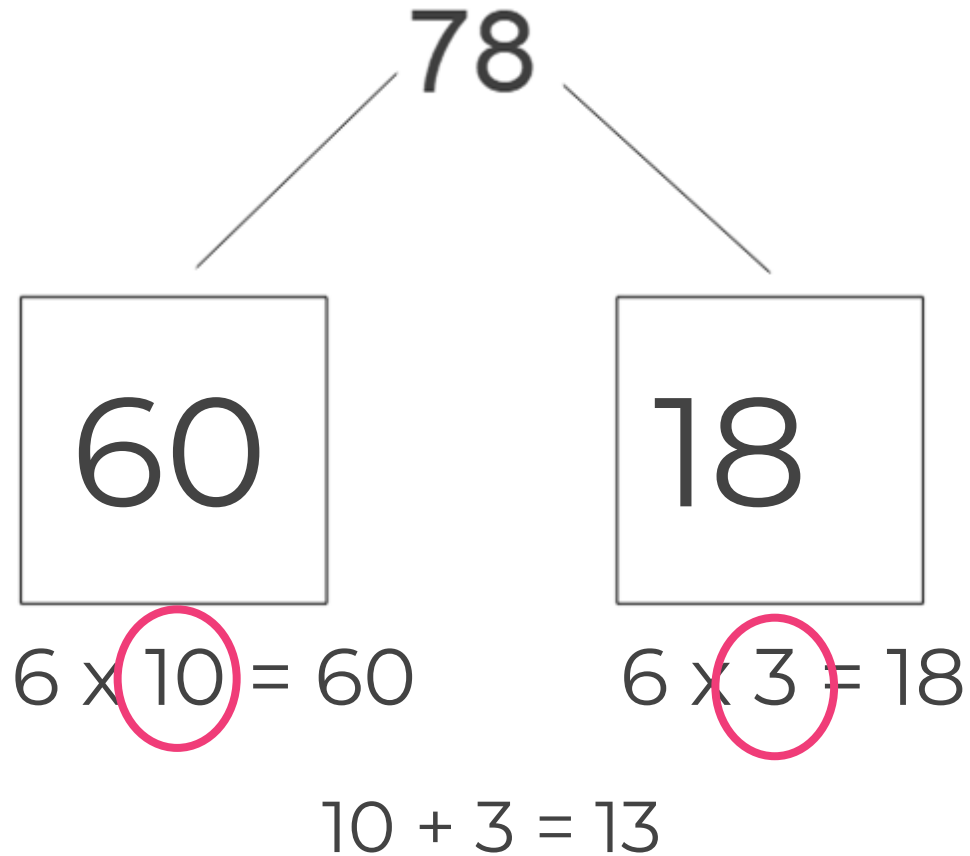
What multiples of 6 in 78 do we know?



What multiples of six do we know?

What multiples of six could we partition 78 into?

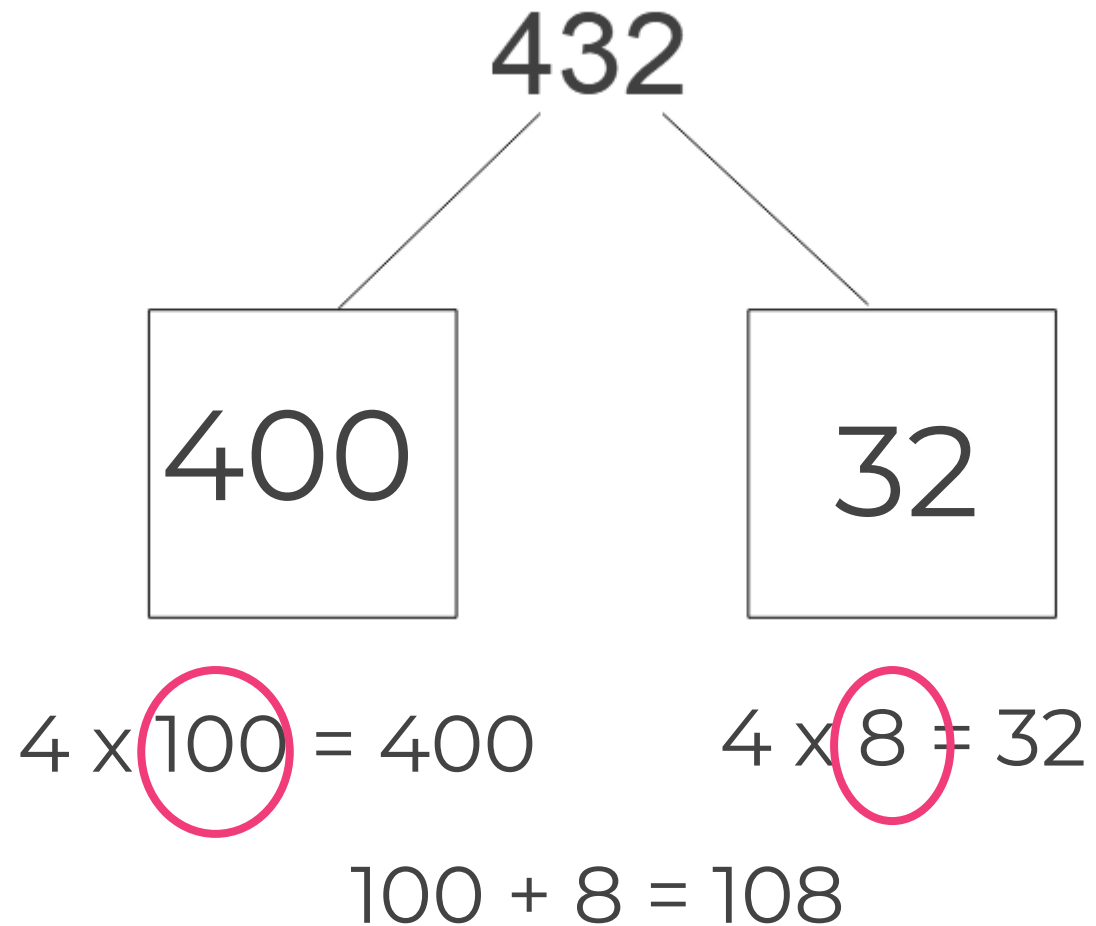
$$78 \div 6 = \boxed{13}$$



What multiples of four do we know?

What multiples of four could we partition 432 into?

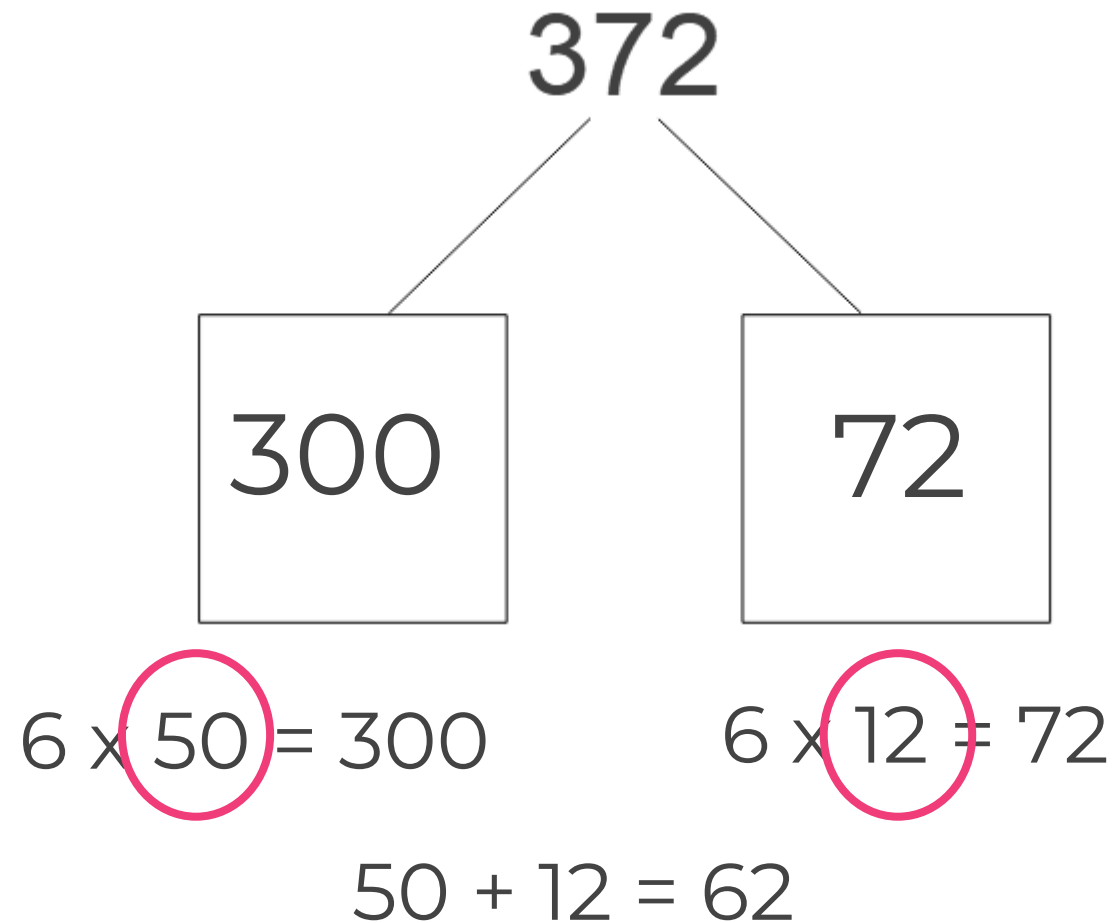
$$432 \div 4 = 108$$



What multiples of six do we know?

What multiples of six could we partition 372 into?

$$372 \div 6 = \boxed{62}$$



## Talk Task

Using your known multiplication facts, solve the equations.

Use jottings to record the steps of your division.

What is the fewest number of steps that you can use?

$$545 \div 5 = ?$$

I can subtract \_\_\_\_\_  
groups of \_\_\_\_\_.

I have subtracted \_\_\_\_\_ groups  
of \_\_\_\_\_.  
I have \_\_\_\_\_ groups of \_\_\_\_\_  
and \_\_\_\_\_ remaining.

$$927 \div 3 = ?$$

There are \_\_\_\_\_ equal groups of  
\_\_\_\_\_.  
\_\_\_\_\_ divided by \_\_\_\_\_ is  
equal to \_\_\_\_\_.

I know \_\_\_\_\_ so I  
know \_\_\_\_\_.



**Pause the video to  
complete your task**



**Resume once you're finished**



## Talk Task Answers

Using your known multiplication facts, solve the equations.

Use jottings to record the steps of your division.

What is the fewest number of steps that you can use?

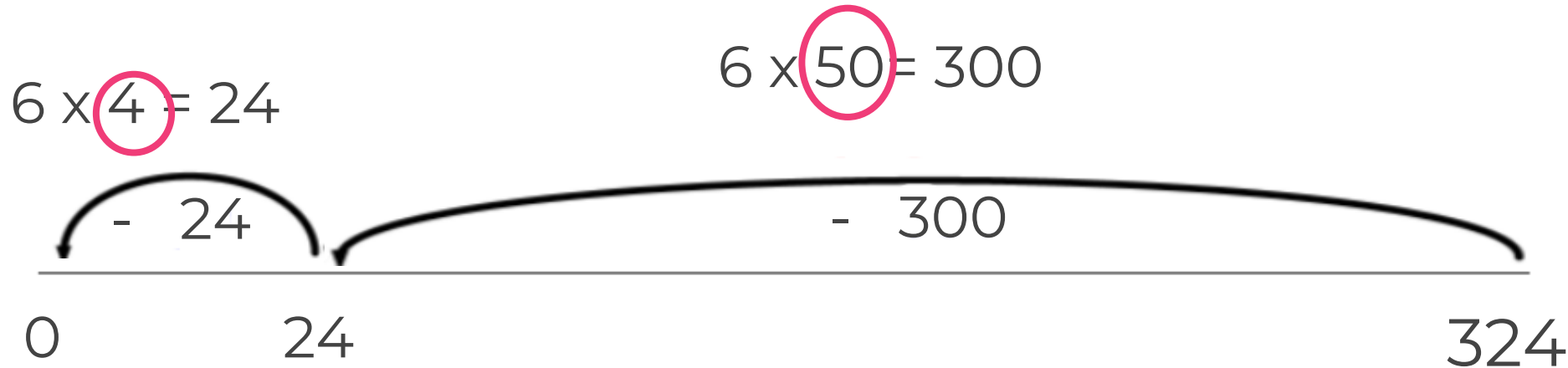
$$545 \div 5 = 109$$

$$927 \div 3 = 309$$



$$324 \div 6 = 54$$

$$50 + 4 = 54$$



I know:

$$2 \times 6 = 12$$

$$3 \times 6 = 18$$

$$4 \times 6 = 24$$

$$5 \times 6 = 30$$

$$6 \times 6 = 36$$

$$7 \times 6 = 42$$

$$8 \times 6 = 48$$

$$9 \times 6 = 54$$

$$10 \times 6 = 60$$

$$11 \times 6 = 66$$

$$12 \times 6 = 72$$



$$824 \div 4 = 206$$

I know:

$$2 \times 4 = 8$$

$$3 \times 4 = 12$$

$$4 \times 4 = 16$$

$$5 \times 4 = 20$$

$$6 \times 4 = 24$$

$$7 \times 4 = 28$$

$$8 \times 4 = 32$$

$$9 \times 4 = 36$$

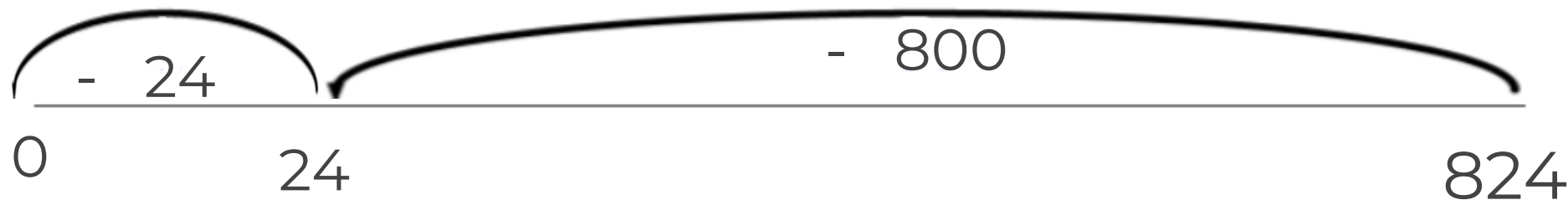
$$10 \times 4 = 40$$

$$11 \times 4 = 44$$

$$12 \times 4 = 48$$

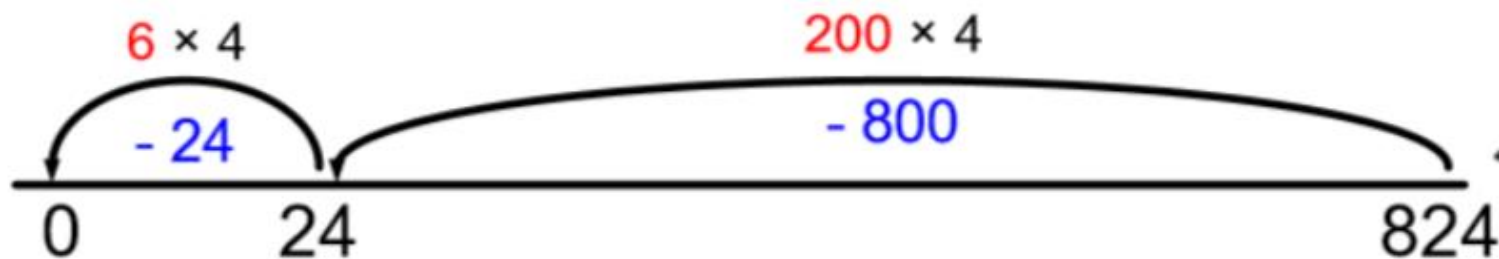
$$4 \times 6 = 24$$

$$4 \times 200 = 800$$

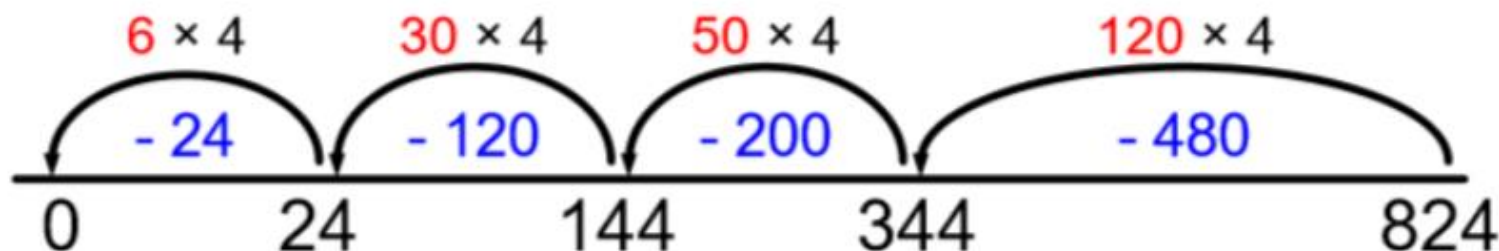


What's the same?  
What's different?

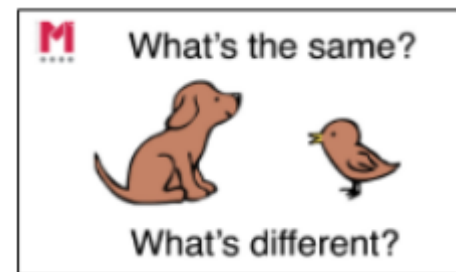
$$824 \div 4 = 206$$



Tia



Joe



I know:

$$2 \times 4 = 8$$

$$3 \times 4 = 12$$

$$4 \times 4 = 16$$

$$5 \times 4 = 20$$

$$6 \times 4 = 24$$

$$7 \times 4 = 28$$

$$8 \times 4 = 32$$

$$9 \times 4 = 36$$

$$10 \times 4 = 40$$

$$11 \times 4 = 44$$

$$12 \times 4 = 48$$



## Question 1

For each equation:

1. What is the fewest number of jumps you can complete it in?
2. Can you complete it in an even number of jumps?
3. Can you complete it in an odd number of jumps?

$$856 \div 8 = ?$$

$$476 \div 4 = ?$$

$$633 \div 3 = ?$$

$$474 \div 6 = ?$$



**Pause the video to  
complete your task**



**Resume once you're finished**



## Question 1

For each equation:

1. What is the fewest number of jumps you can complete it in?
2. Can you complete it in an even number of jumps?
3. Can you complete it in an odd number of jumps?

$$856 \div 8 = 107$$

$$476 \div 4 = 119$$

$$633 \div 3 = 211$$

$$474 \div 6 = 79$$



***Now complete the quiz!***



# Share your work with Oak National

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