# Ultimate reasoning resources

To support teachers, parents and schools to develop communication, talking and justification



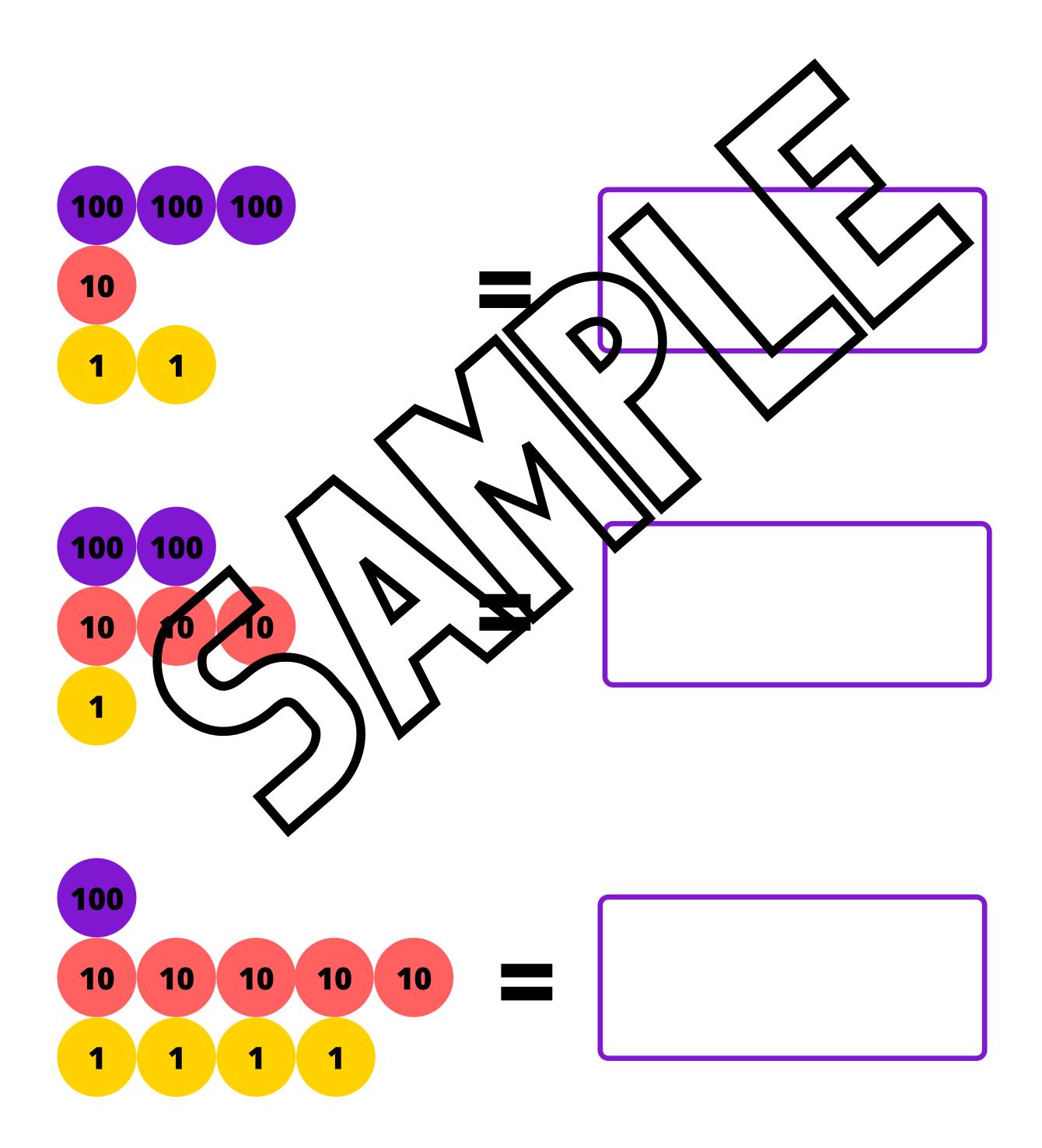
Year 3 and 4

John Bee

@mrbeeteach

# **Equivalent to?**





## How many ways?



Use a pile of 100s, 10s and 1s to make 130.

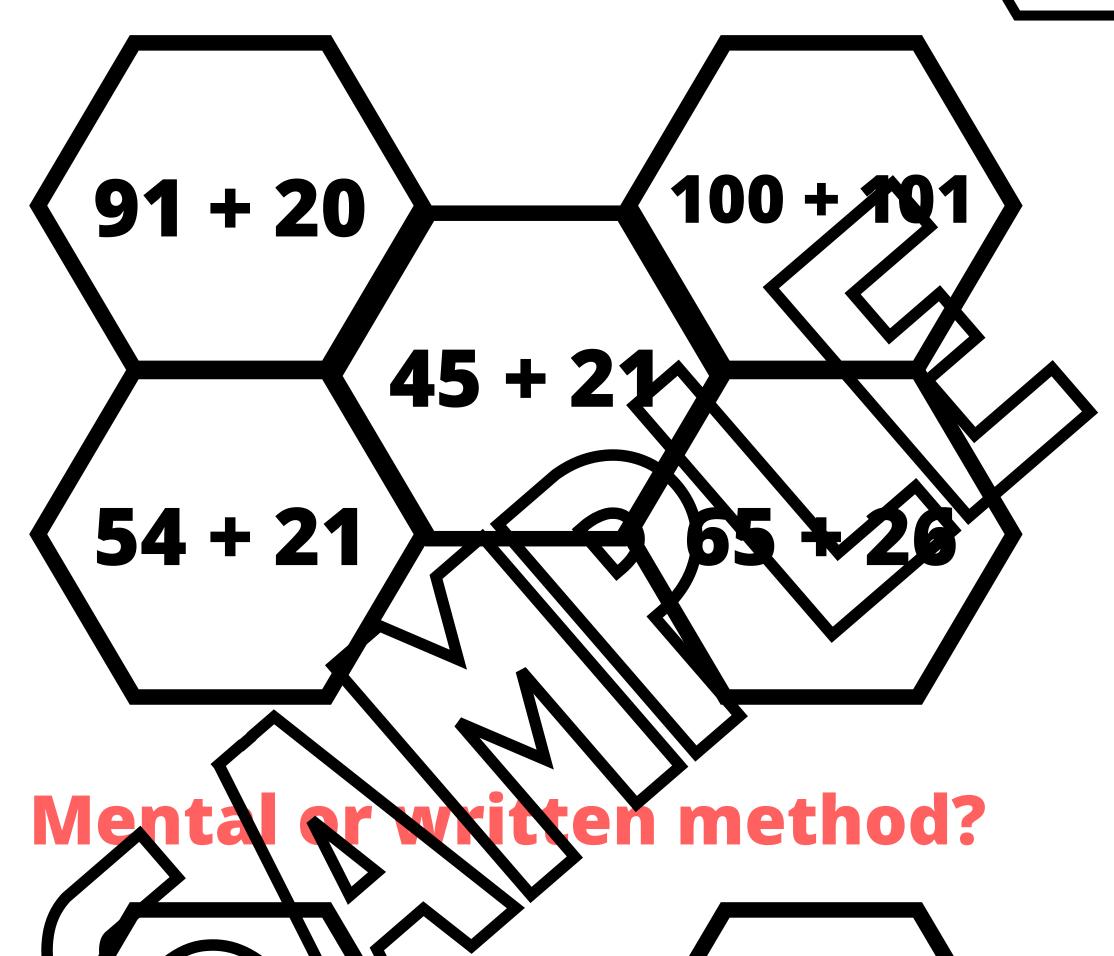
100 10

Use a pile of 100s, 10s and 1s to make 230:

100 10







# Missing digits?



12

1 3 +

46

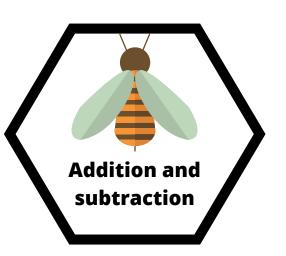
Missing digits:

24)

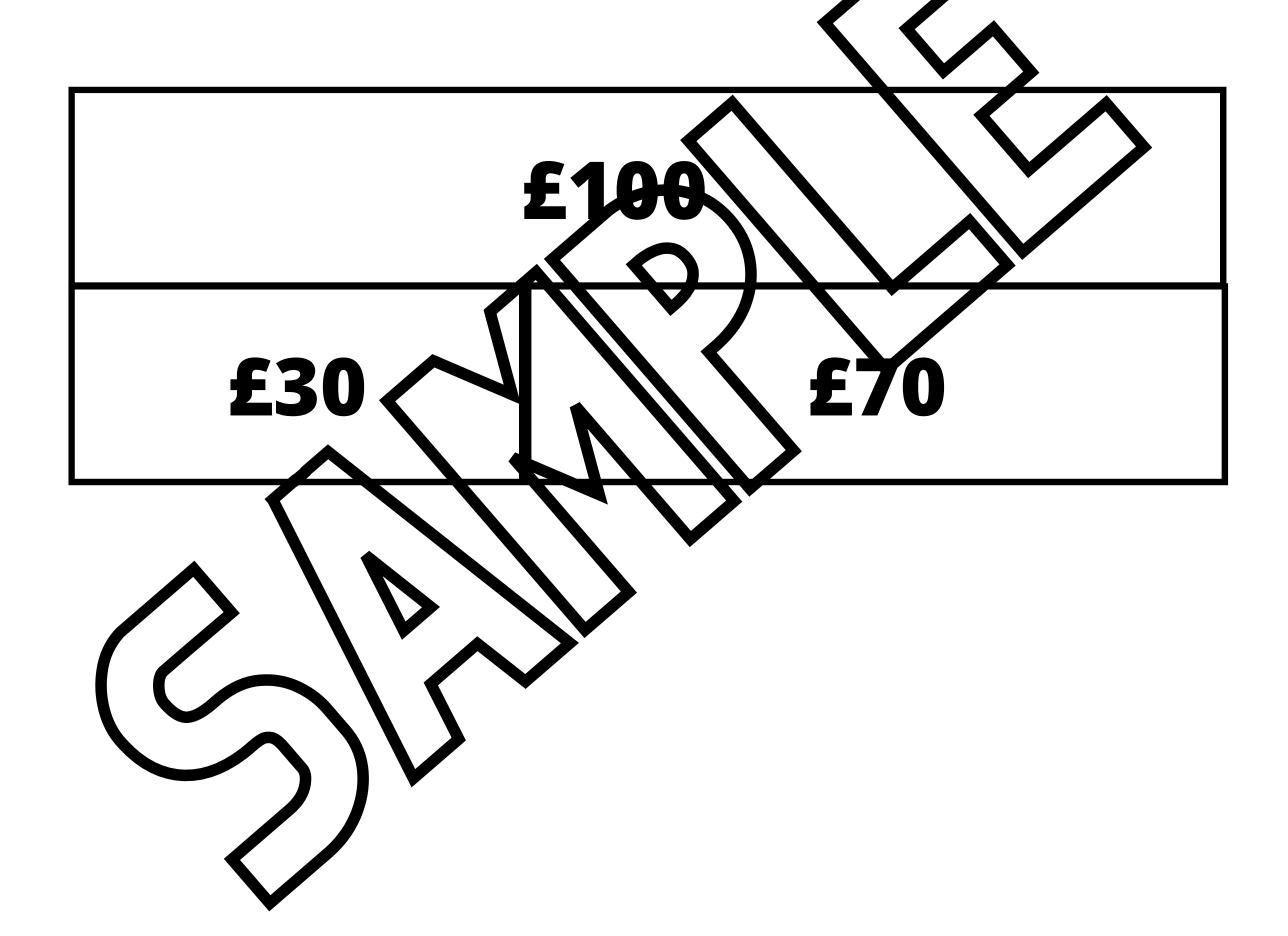
2 6 +

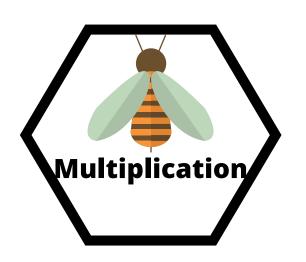
9 2





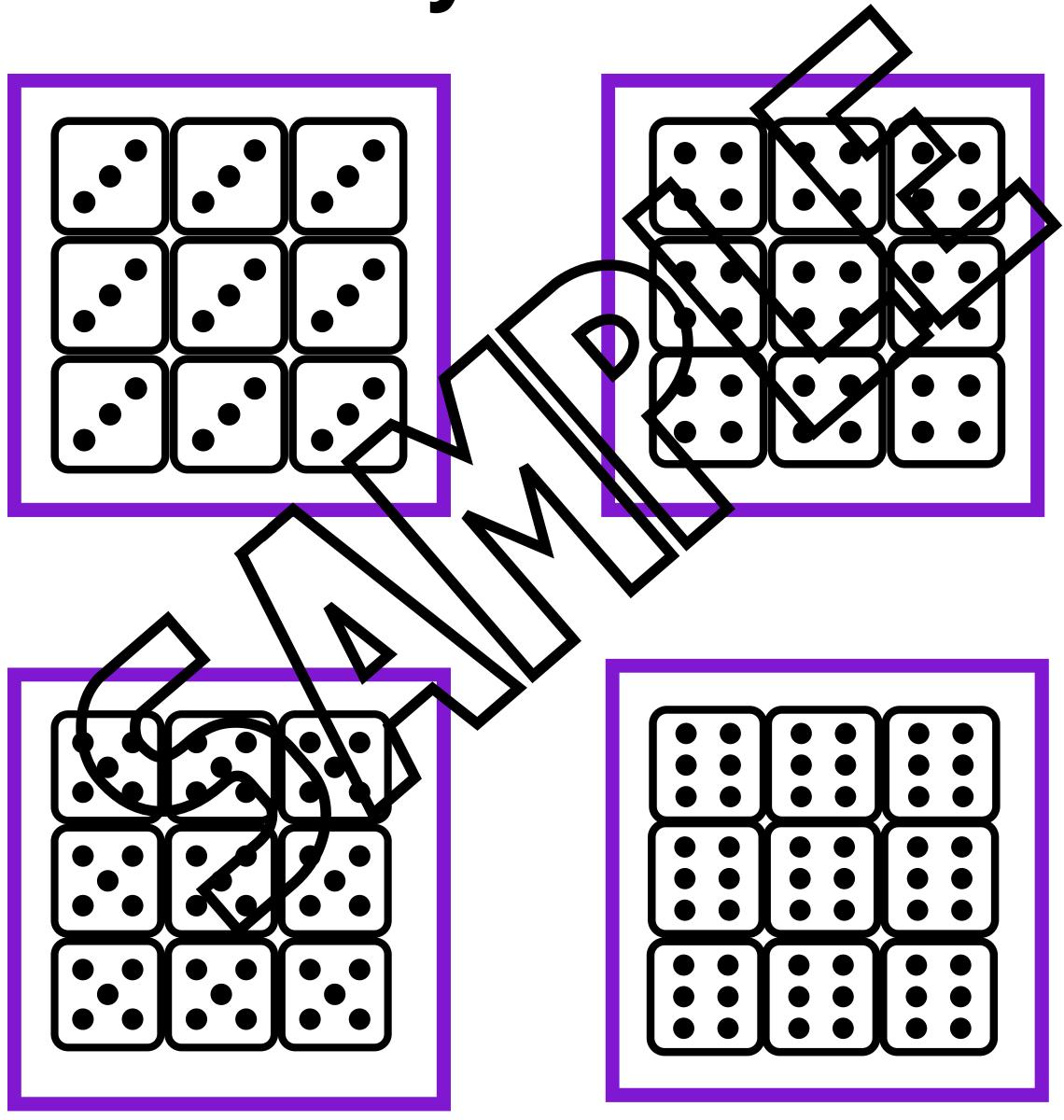
Which calculations can you see on the bar mode?



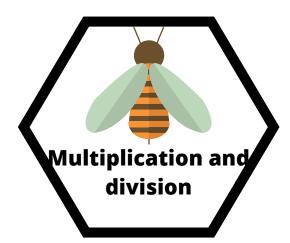


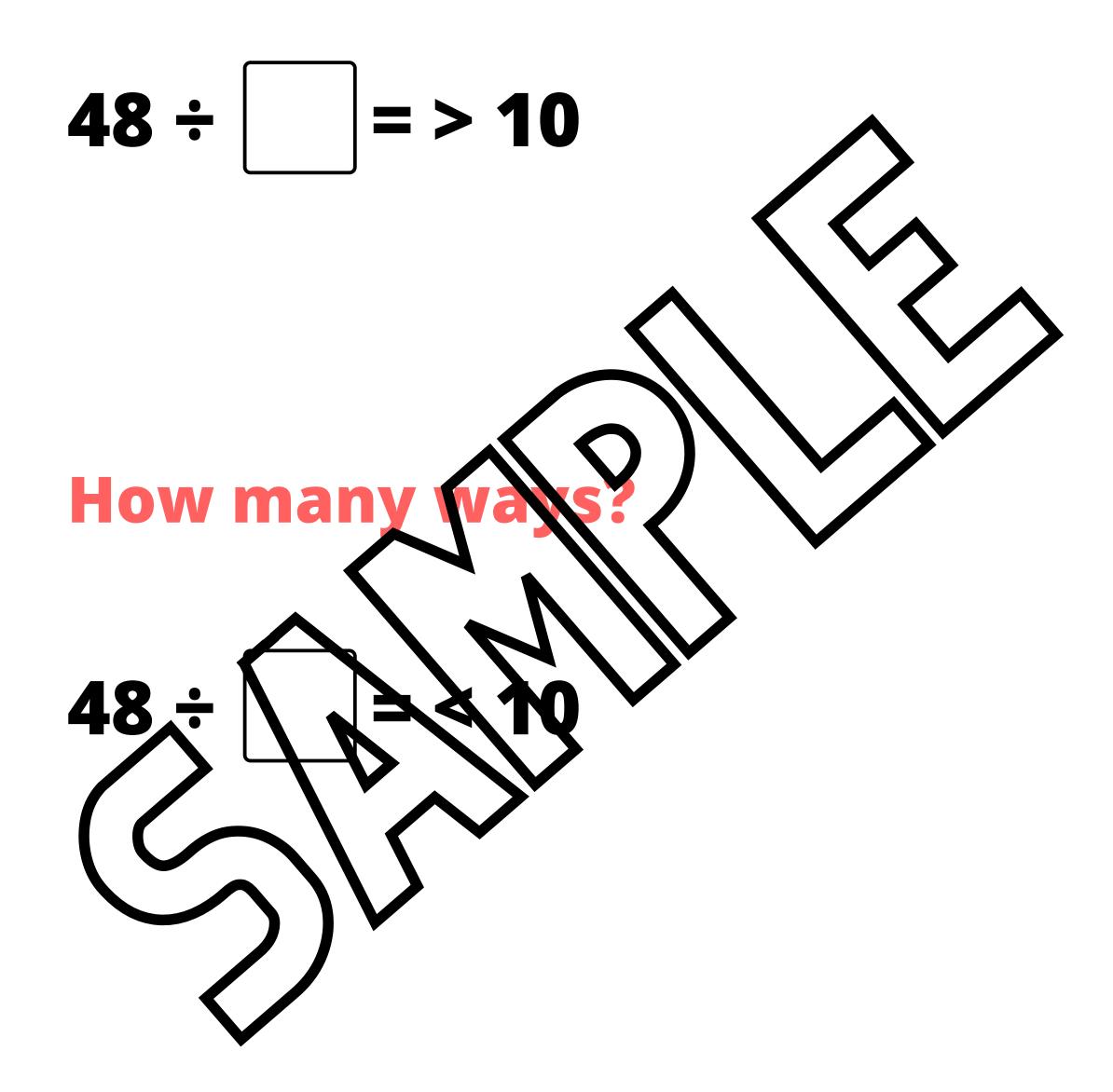
# Which number sentence could you write?

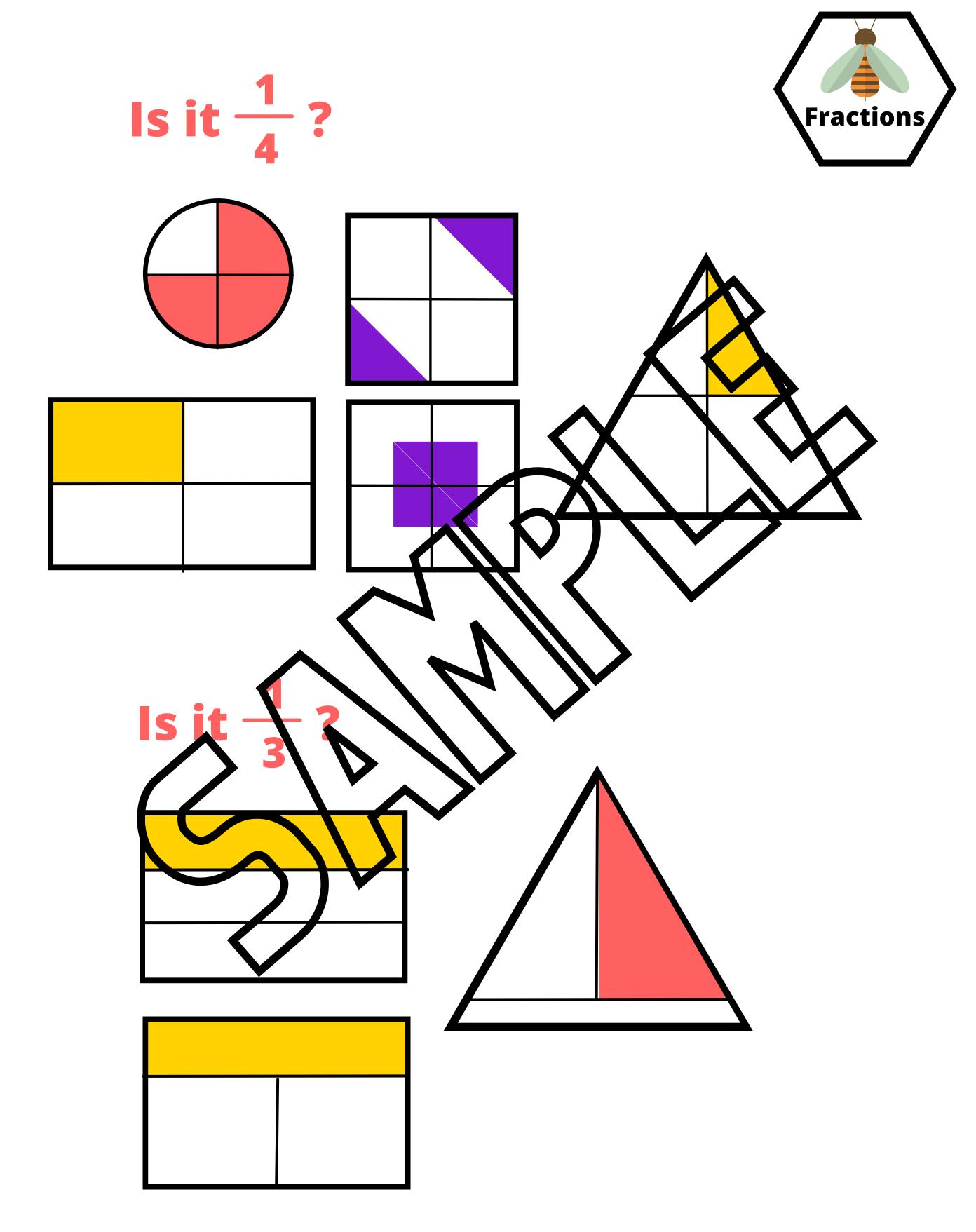
How many dots?



## How many ways?



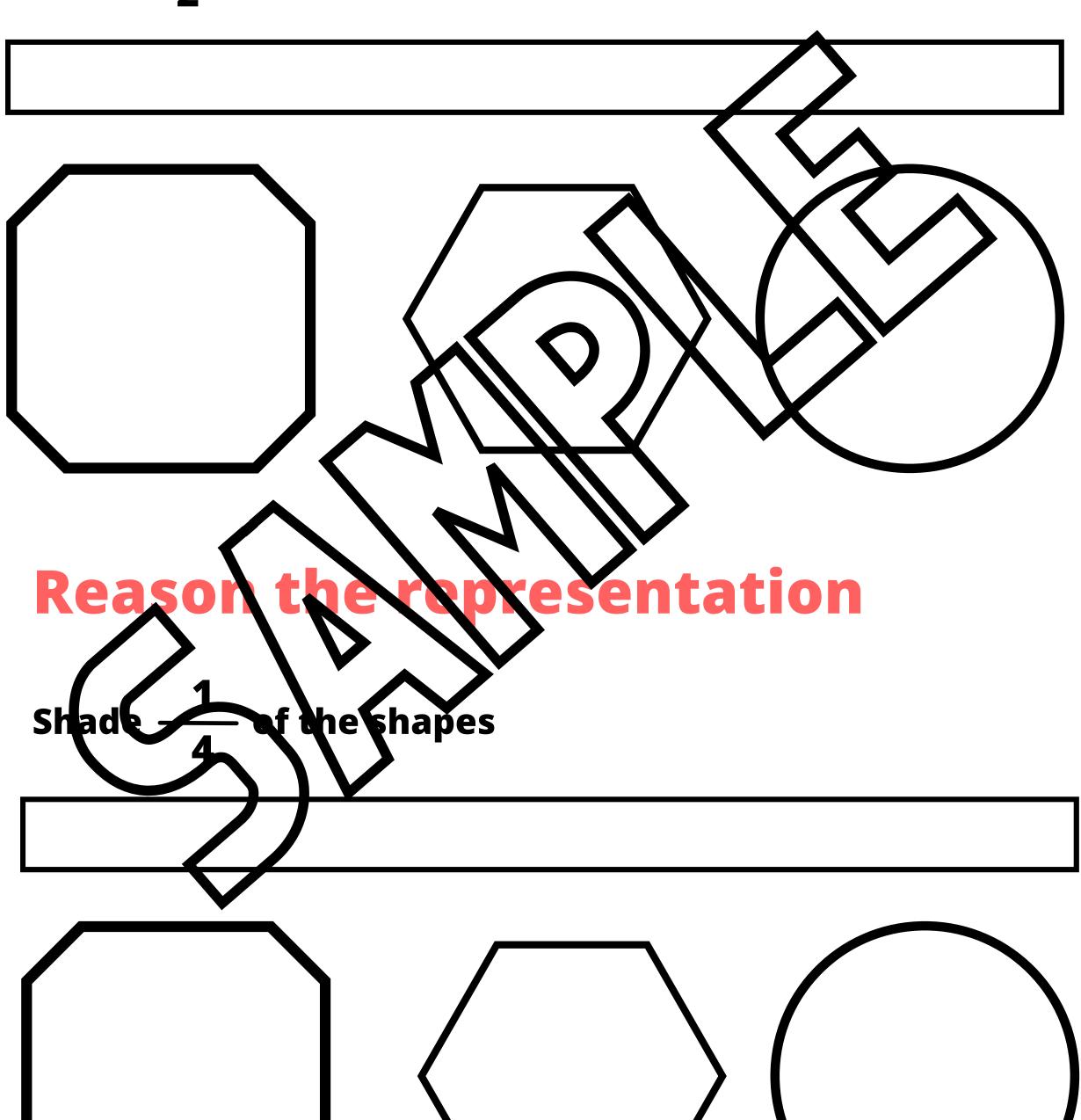




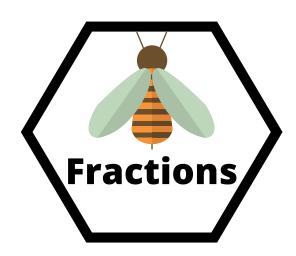
# Reason the representation (Fractions)

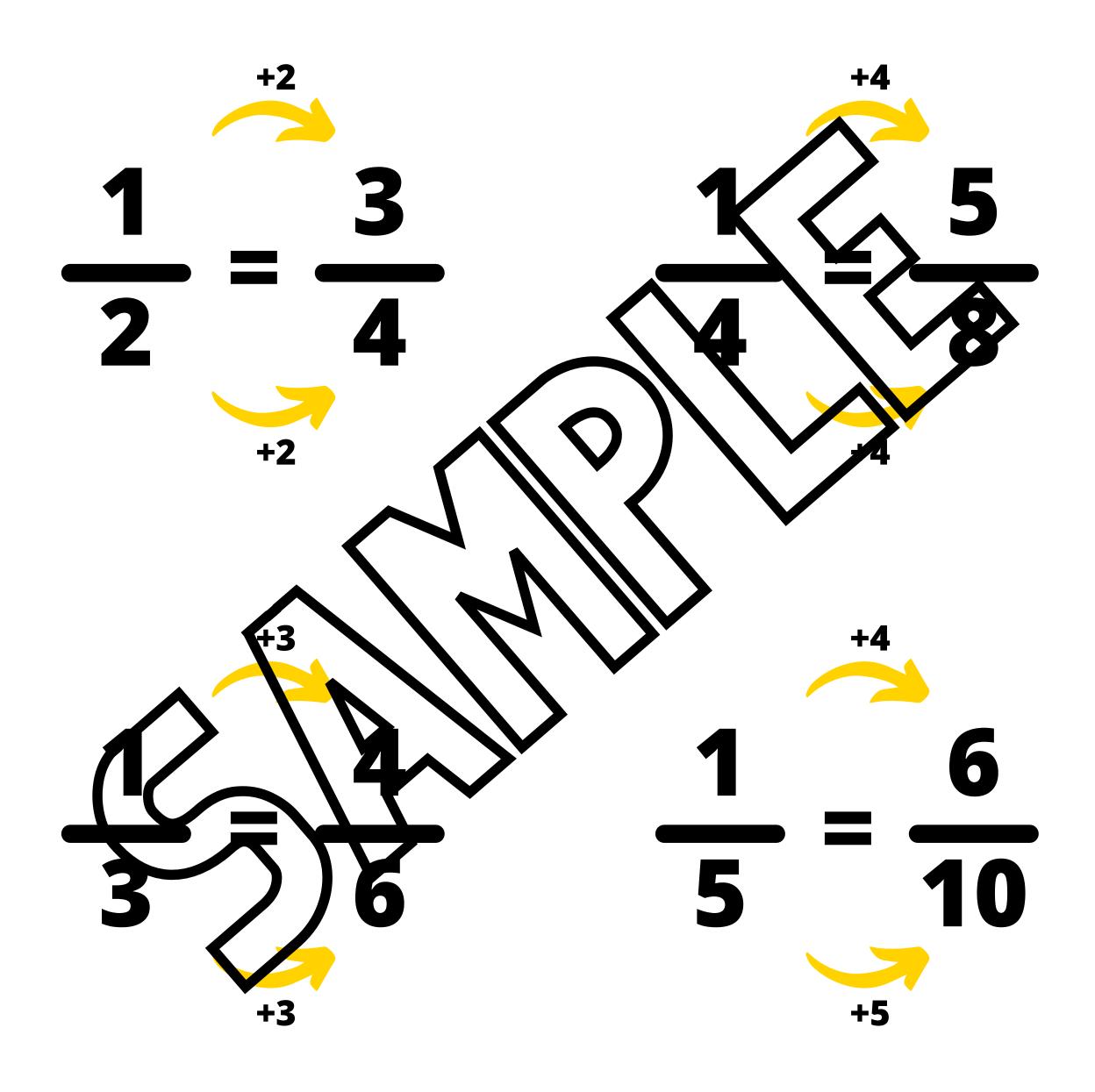


Shade 
$$\frac{1}{2}$$
 of the shapes

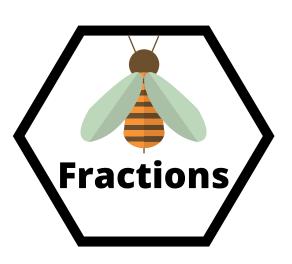


# Spot the mistake

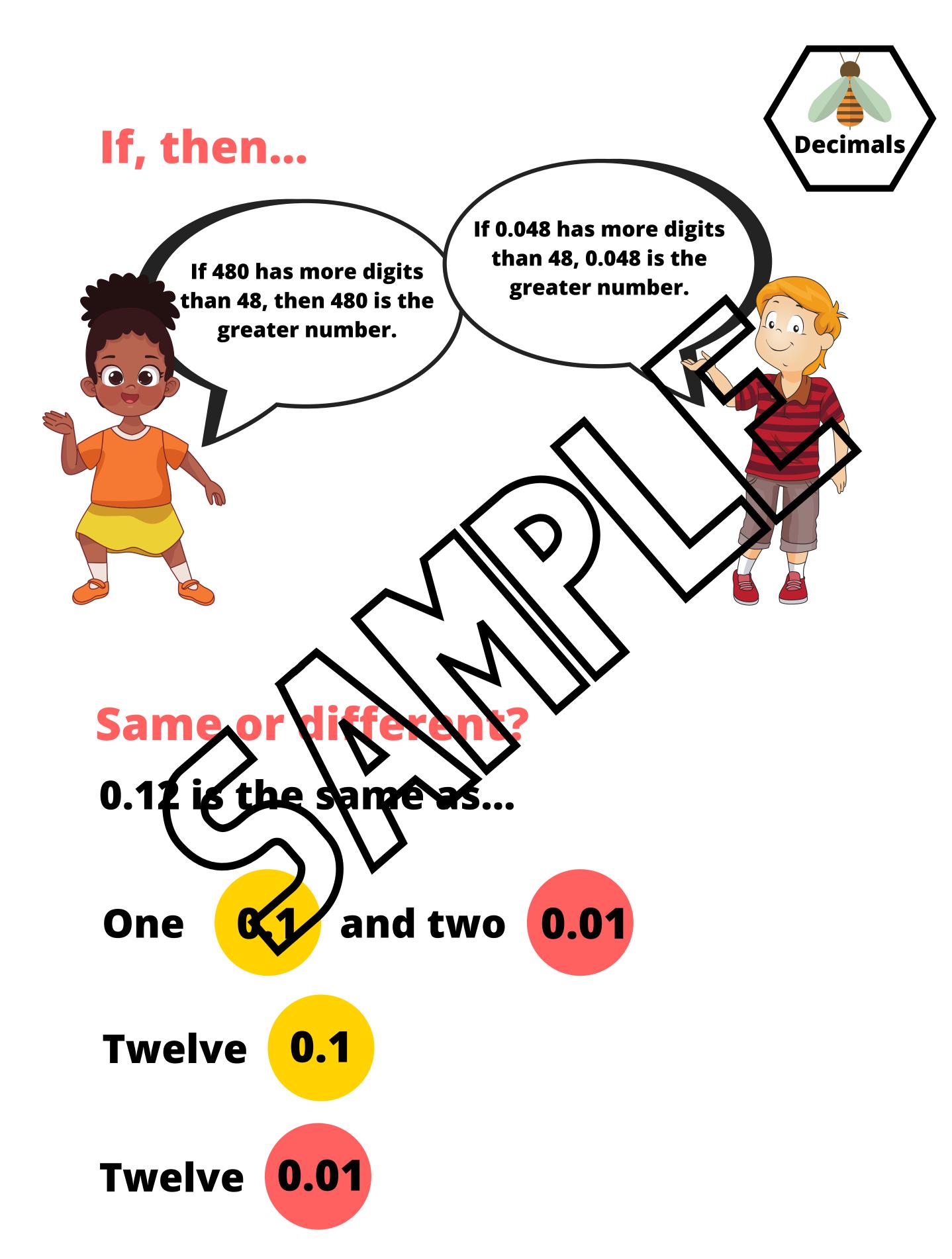




# What's missing?



1		
<b>3 4</b>	3	
1		
5 7		<b>3 10</b>
	3	
1_5		<b>3 10</b>



## Money problems.

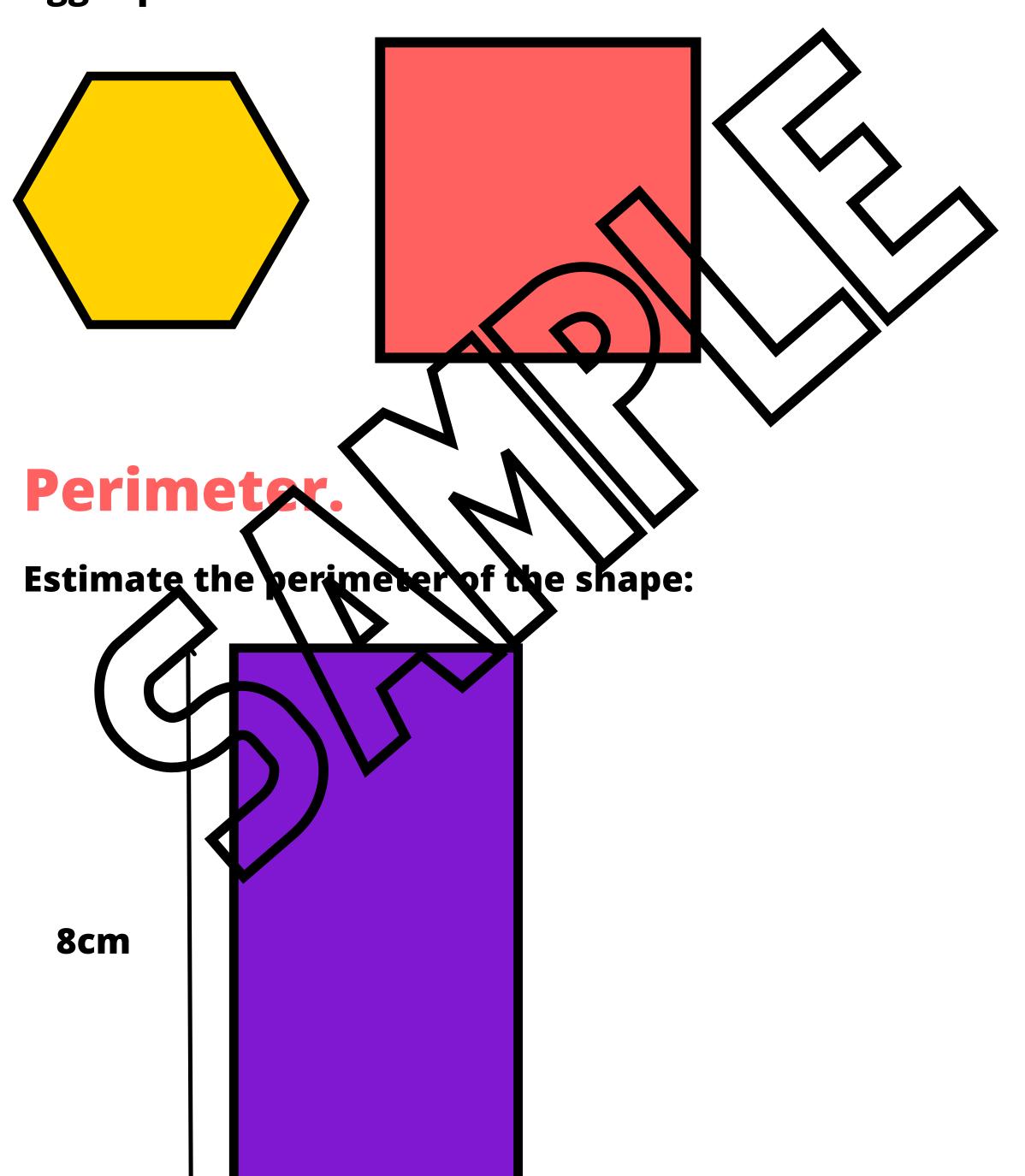


Strawberries are more expensive than a banana. Strawberries are cheaper than avocado. A banana is thanan avocado. **Avacado** 

#### Measure



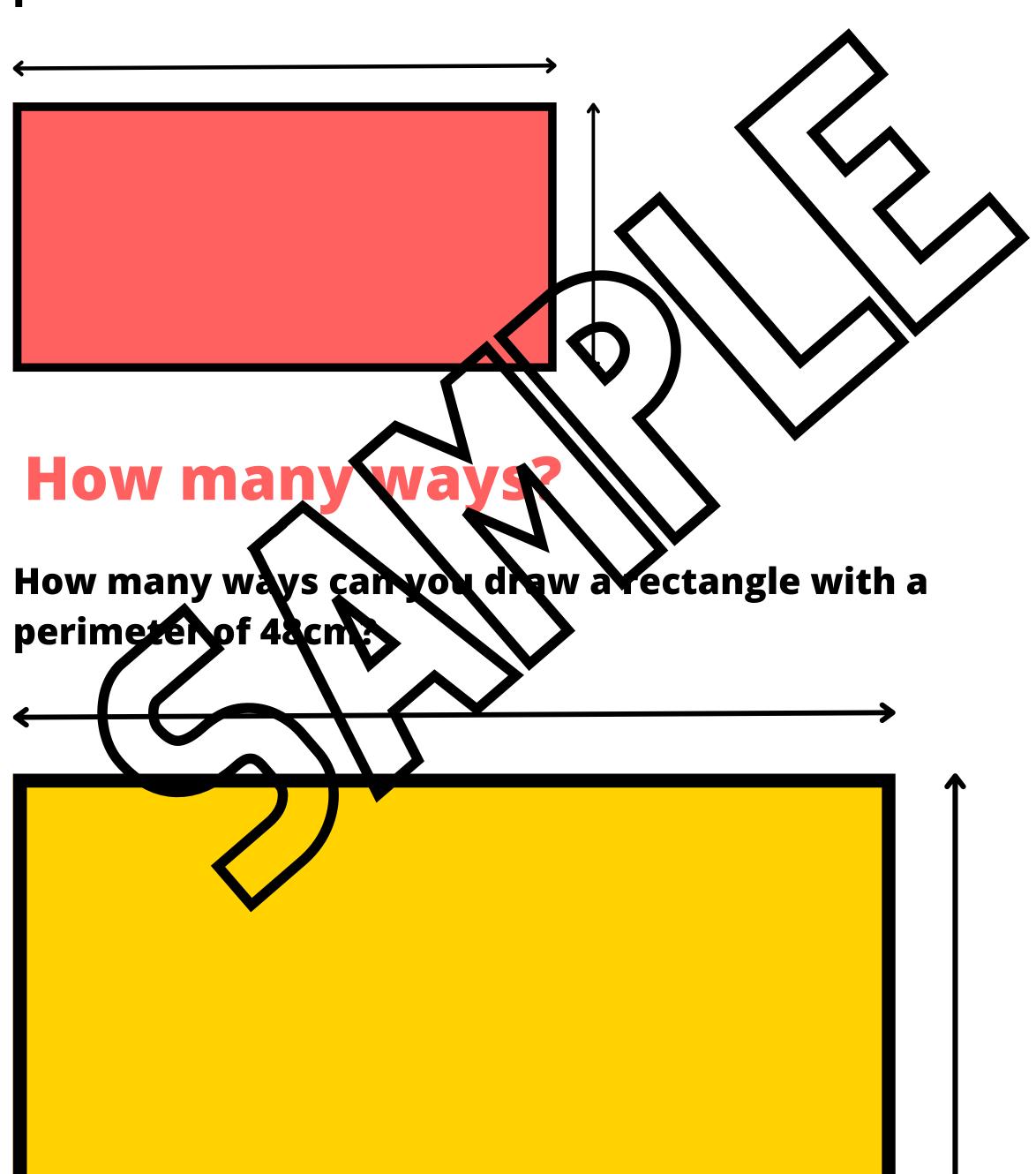
Use a ruler to measure which shape has the bigger perimeter.



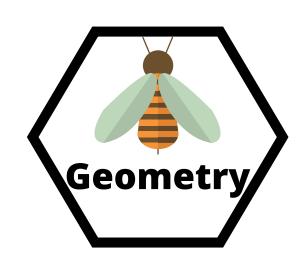
## How many ways?

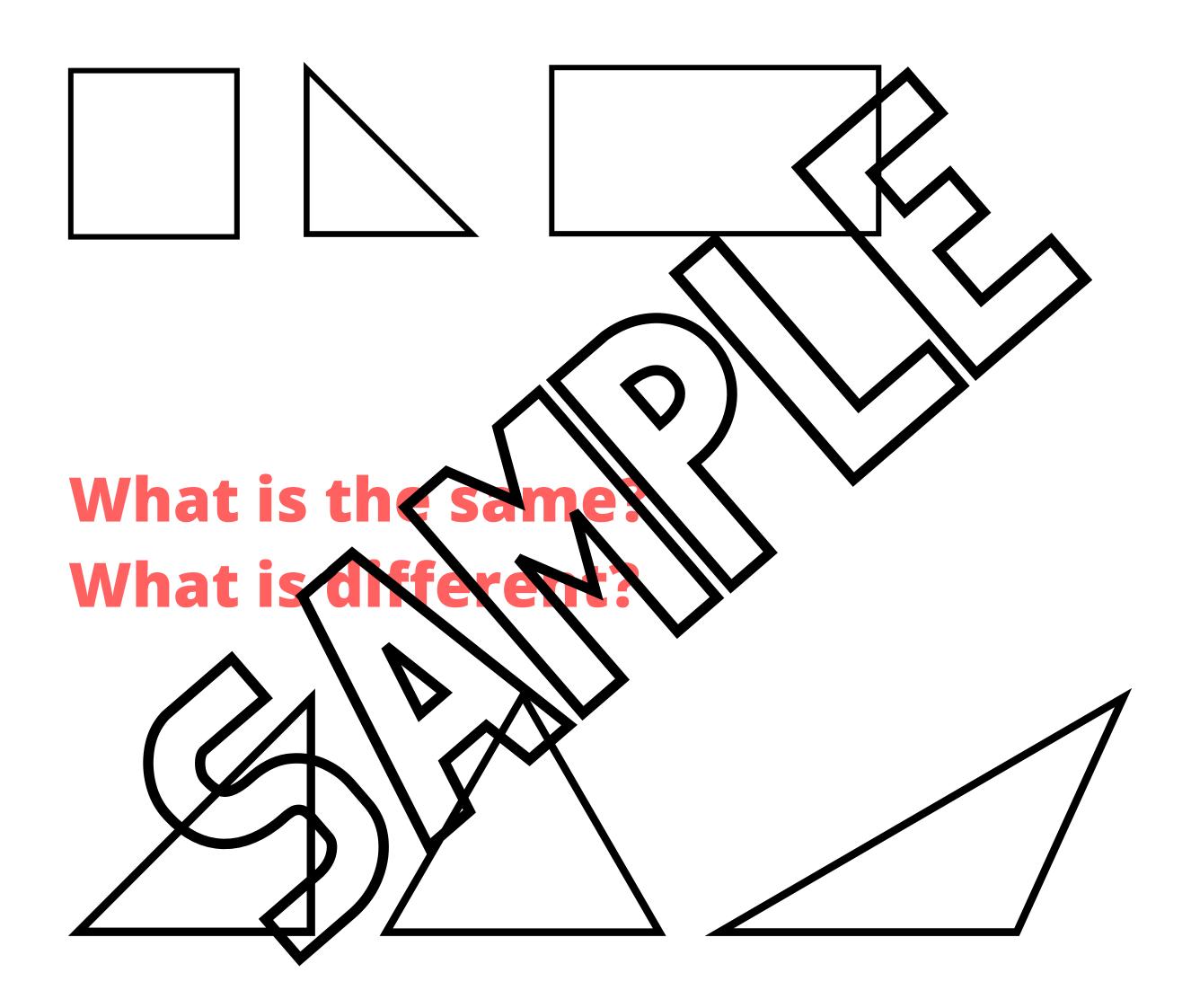


How many ways can you draw a rectangle with a perimeter of 24cm?

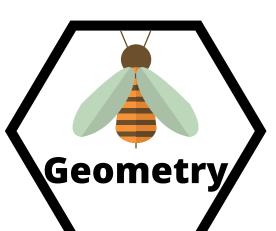








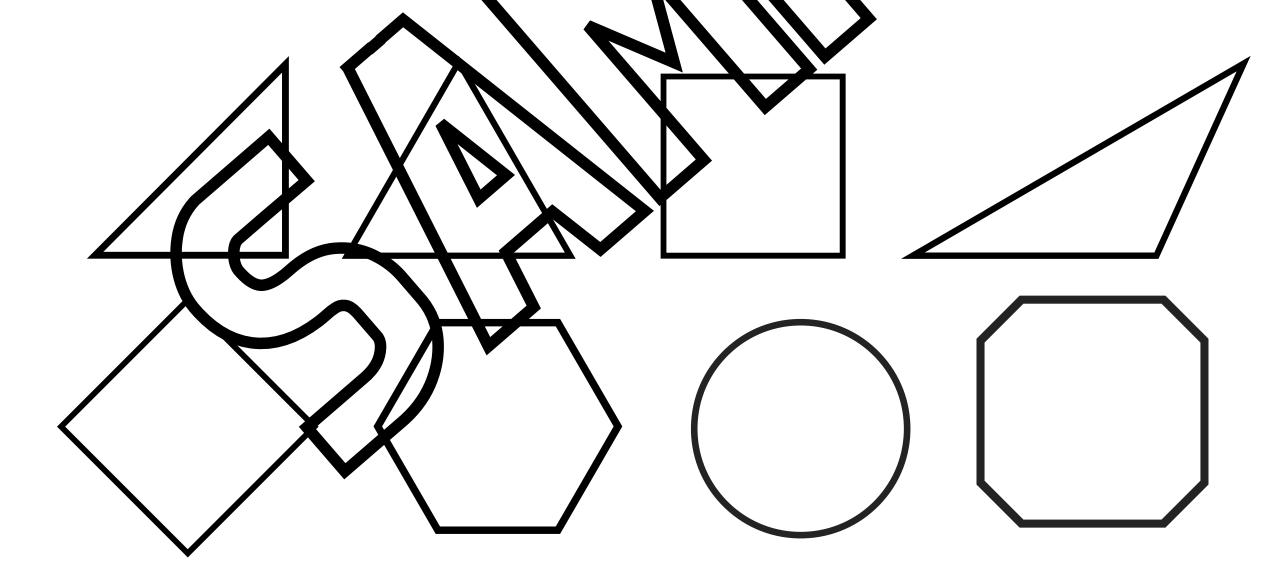
### Parallel?



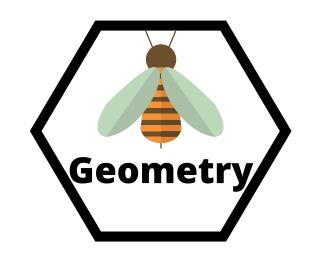
Find the parallel lines.

### Parallel?

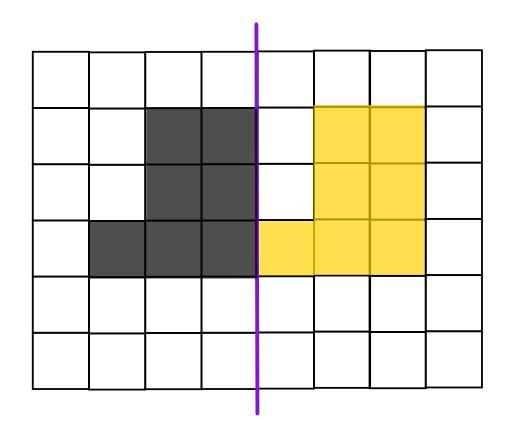
Tick the shapes which have parallel lines.

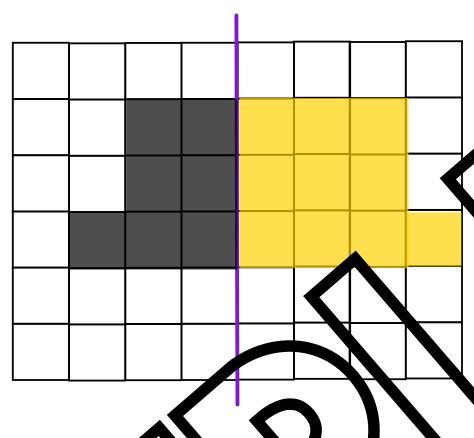


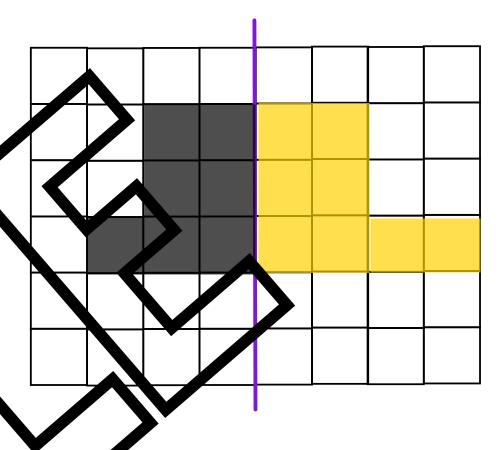
# What went wrong?



#### What went wrong with the reflection?

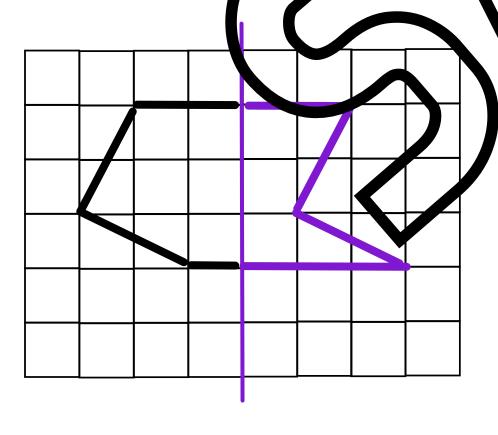


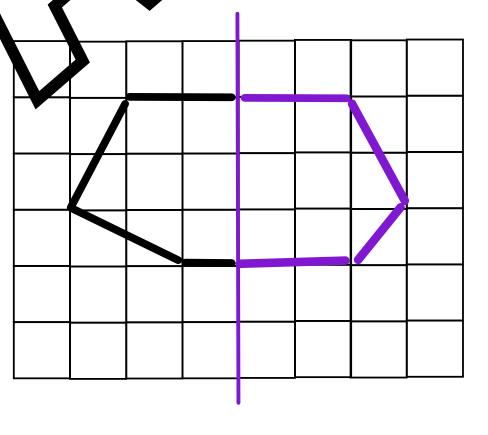


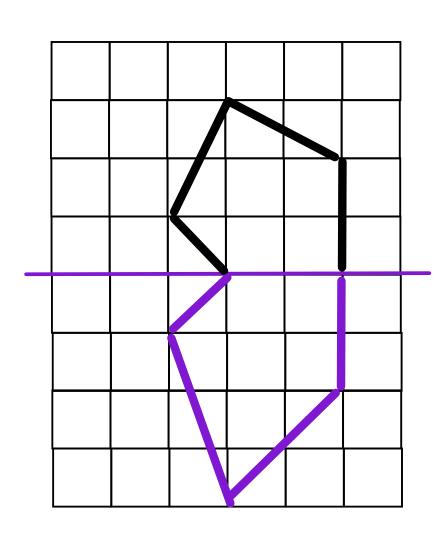


# What went wrong?

What went wrong with the reflection?



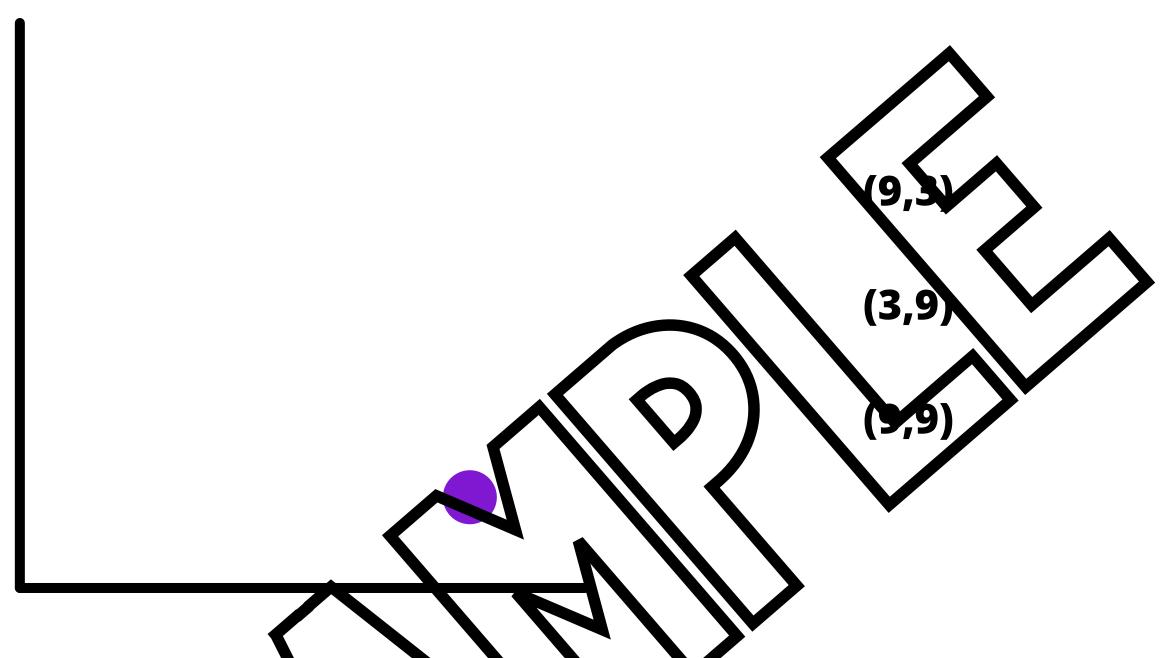




#### Where?

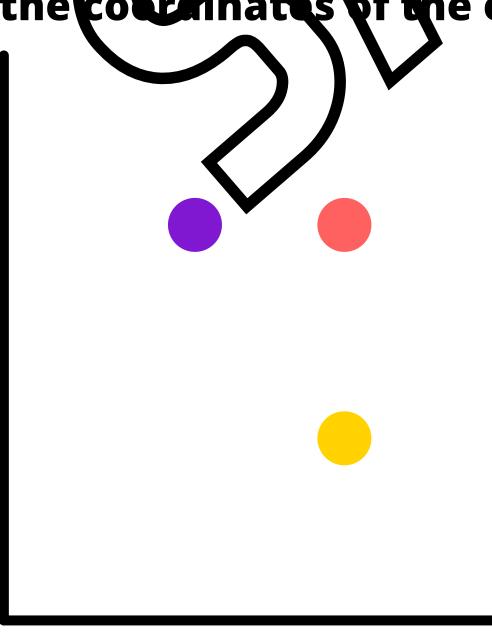


What could the coordinates be for the dot? What could the coordinates NOT be?



## If, then.

If the purple dot is at coordinates (3,8). Estimate the coordinates of the other dots.



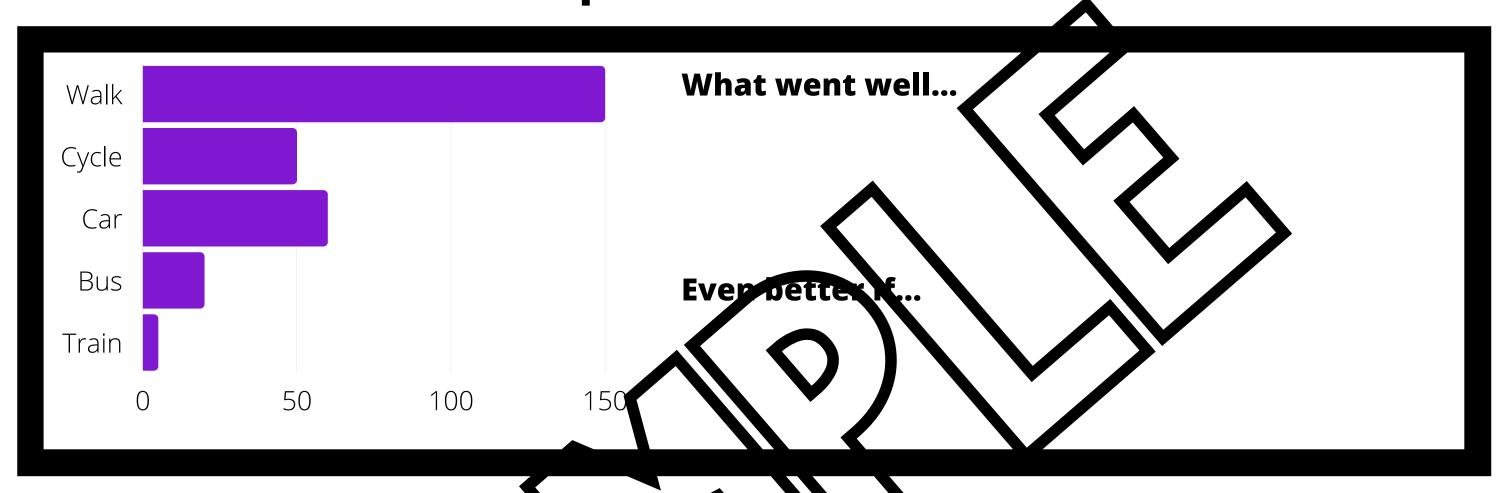
Walk - 150 **Cycle - 50 Car - 60** 

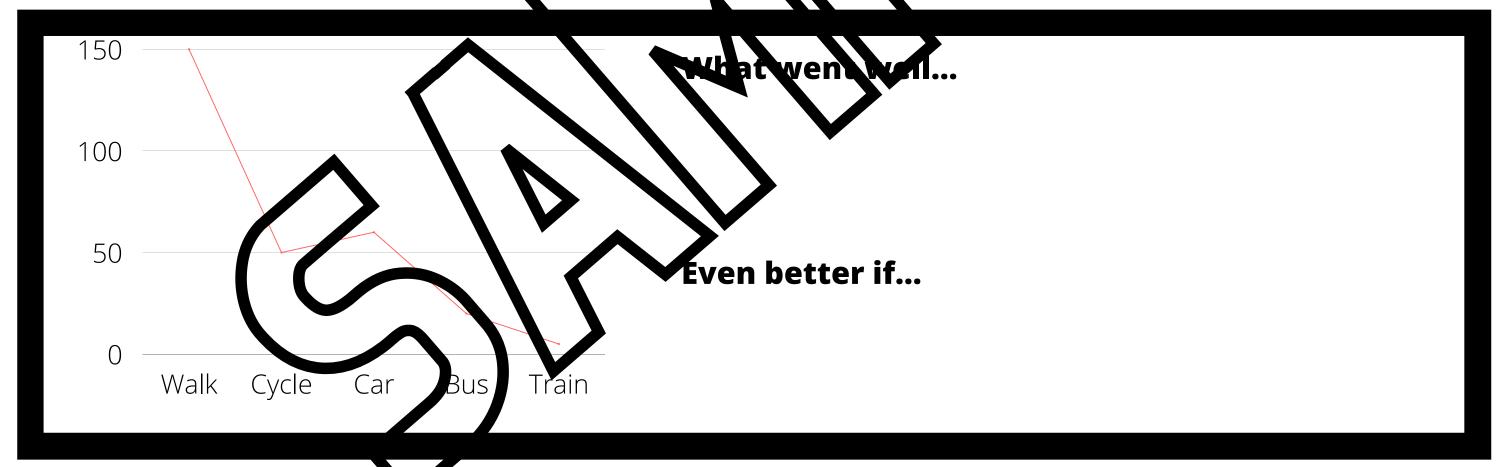
## Interpret and draw. Train - 5

**Bus - 20** 



The data shows how children get to school. Look at the graphs and suggest what it good at about them and how to improve them.









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