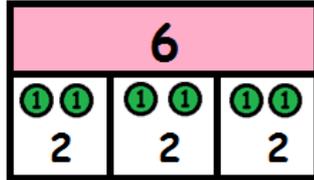


# RECALL - BAR MODEL TO SHOW $\div 3$ (THIRD) AND $\div 6$ (SIXTH)

Third means dividing by three.

$\frac{1}{3}$

The whole is \_\_\_\_.



It is shared between 3 boxes.

\_\_\_\_  $\div$  3 = \_\_\_\_

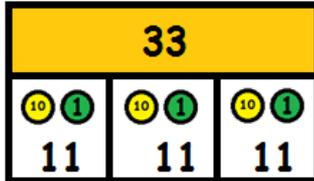
The whole is \_\_\_\_.



It is shared between 3 boxes.

\_\_\_\_  $\div$  3 = \_\_\_\_

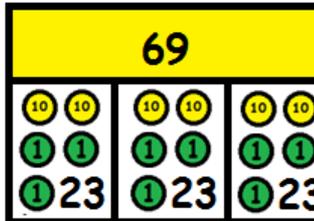
The whole is \_\_\_\_.



It is shared between \_\_\_\_ boxes.

\_\_\_\_  $\div$  3 = \_\_\_\_

The whole is \_\_\_\_.



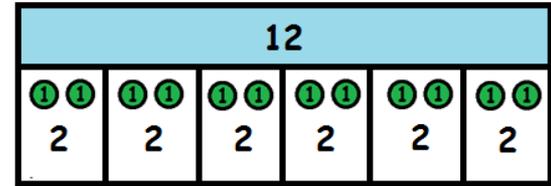
It is shared between \_\_\_\_ boxes.

\_\_\_\_  $\div$  3 = \_\_\_\_

Sixth means dividing by six.

$\frac{1}{6}$

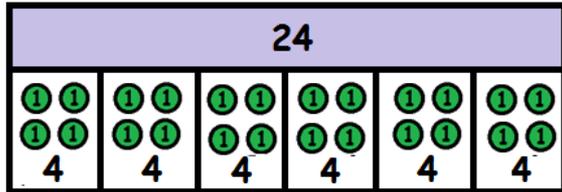
The whole is \_\_\_\_.



It is shared between 6 boxes.

\_\_\_\_  $\div$  6 = \_\_\_\_

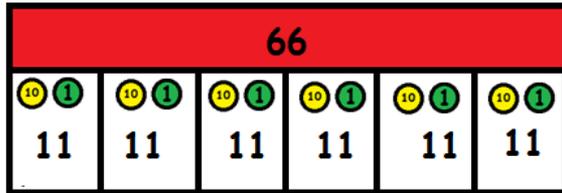
The whole is \_\_\_\_.



It is shared between 6 boxes.

\_\_\_\_  $\div$  6 = \_\_\_\_

The whole is \_\_\_\_.



It is shared between 6 boxes.

\_\_\_\_  $\div$  6 = \_\_\_\_

# LO: I CAN FIND FRACTIONS FOR A SET OF OBJECTS (THIRD AND SIXTH).

Page

## Success Criteria

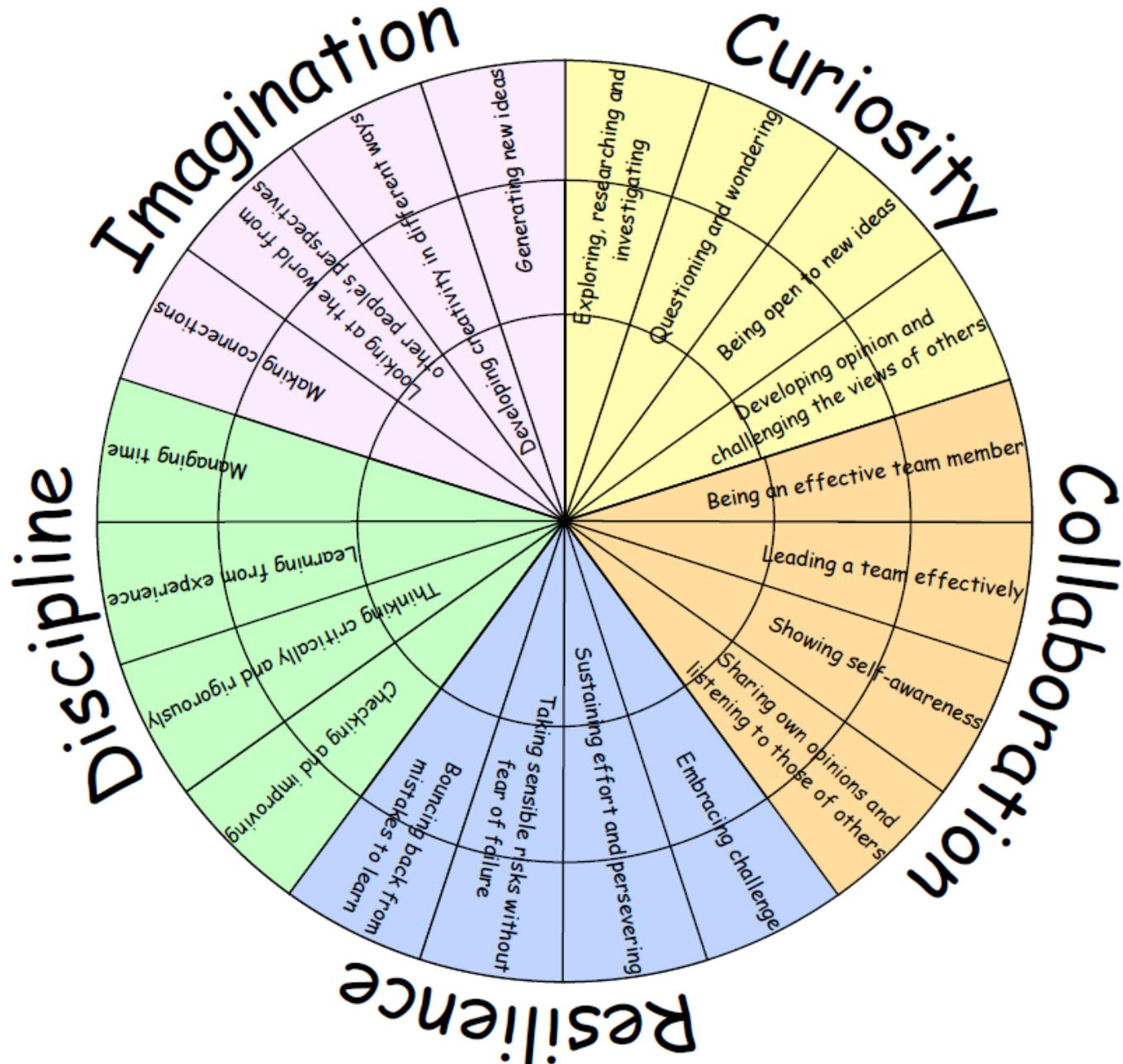
**Some will even** solve a variety of reasoning problems.

**Some will** find totals when the numerator changes for more than 1.

**Most will** know how to find a third and sixth of simple totals.

**All will** find a third and sixth of simple totals (with equipment).

# LEARNING HABITS?





# INTELLIGENT PRACTICE



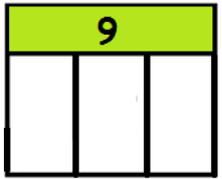
Share the total equally using units. ①



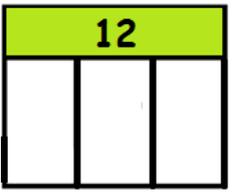
$\frac{1}{3}$  of 6.



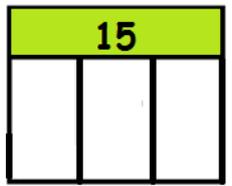
$\frac{1}{3}$  of 9



$\frac{1}{3}$  of 12

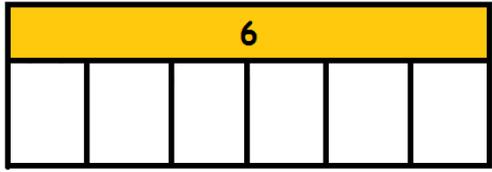


$\frac{1}{3}$  of 15

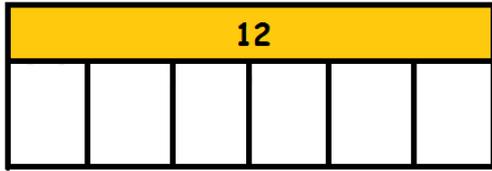


Share the total equally using units. ①

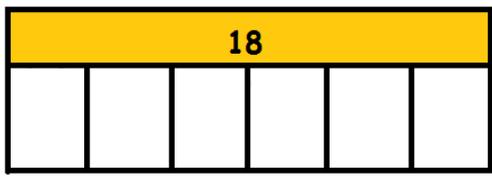
$\frac{1}{6}$  of 6



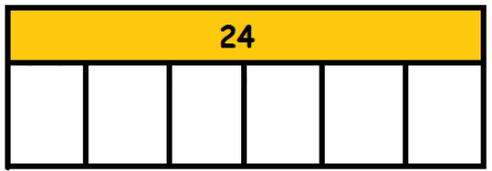
$\frac{1}{6}$  of 12



$\frac{1}{6}$  of 18



$\frac{1}{6}$  of 24



In your maths book, solve these questions using a bar model.

$\frac{2}{3}$  of 18

$\frac{2}{6}$  of 30

$\frac{3}{6}$  of 28

$\frac{4}{6}$  of 30

$\frac{5}{6}$  of 24

Write an explanation about how you solved chilli 3 questions.



*First, I drew ...  
 I equally shared... into ....  
 Boxes because the  
 numerator of the  
 fraction is \_\_.  
 I needed to count \_ out  
 of \_ boxes.*

## 3 BEFORE ME

A third means share by 3.  
A sixth means share by 6.



# DIVE DEEPER 1

1 Find  $\frac{1}{3}$  of 9 ice creams.



Solve it using a bar model.



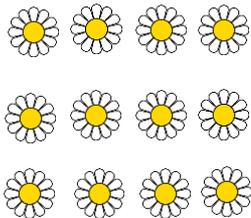
Write the calculation.

$$\square \div \boxed{3} = \square$$

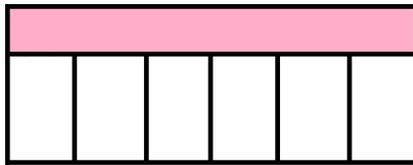
$\frac{1}{3}$  of 9 ice creams is \_\_\_\_\_.

2

Find  $\frac{1}{6}$  of 12 daisies.



Solve it on the bar model.



Write the calculation.

$$\square \div \boxed{6} = \square$$

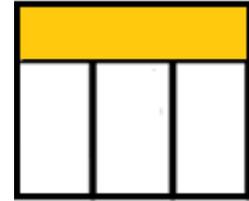
$\frac{1}{6}$  of 12 daisies is \_\_\_\_\_.

3

A field has 15 carrots. A rabbit eats  $\frac{1}{3}$  of them. How many carrots does it eat?

$$\square \div \square = \square$$

$\frac{1}{3}$  of 15 carrots is \_\_\_\_\_.



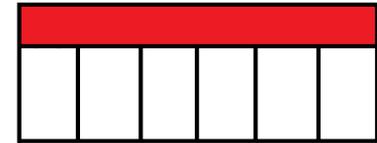
4

There are 18 cans of Coke in the cupboard. I share one sixth of them with my friends. How many cans did I share?

Write the calculation.

$$\square \div \square = \square$$

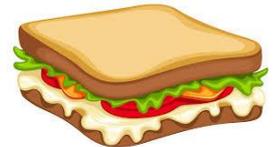
$\frac{1}{6}$  is \_\_\_\_\_ cans.



5

Adam is making a sandwich. Inside it is:

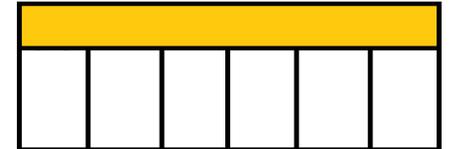
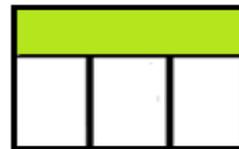
- $\frac{1}{3}$  of a cucumber.
- $\frac{1}{6}$  of a punnet of tomatoes.



There are 30 slices of cucumber. There are 24 tomatoes.

30 ÷ \_\_\_ = \_\_\_ cucumber slices

24 ÷ \_\_\_ = \_\_\_ tomatoes

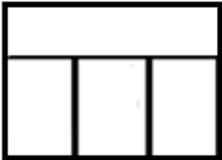


# DIVE DEEPER 2

1 Here are 12 eggs.



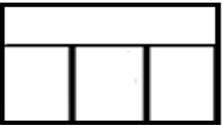
Two thirds of them are used to make an omelette.



$\frac{2}{3}$  of 12 eggs is \_\_\_\_.

2 There is 24 kg of rice in a sack.

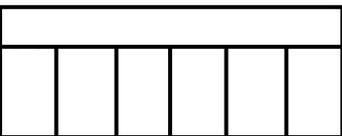
A restaurant uses  $\frac{2}{3}$  of rice.

The restaurant used \_\_\_\_ kg of rice.

3 There are 18 pencil crayons.

Two sixths of them need sharpening.

$\frac{2}{6}$  of 18 pencil crayons is \_\_\_\_.

4 There are 30 frogs in a lake.

Three sixths of them jump onto lily pads.




$\frac{3}{6}$  of 30 frogs is \_\_\_\_.

5 Use a bar model to solve each problem.

$\frac{2}{6}$  of 30 rich tea biscuits is \_\_\_\_.



$\frac{3}{6}$  of 24 custard creams is \_\_\_\_.



$\frac{4}{6}$  of 36 choc-chip cookies is \_\_\_\_.



6 Six children complete a maths test that takes 1 hour (60 minutes). The children finish at different times.



Ana finishes her test in  $\frac{2}{3}$  of the time.  
This is \_\_\_\_ minutes.

Max finishes his test in  $\frac{5}{6}$  of the time.  
This is \_\_\_\_ minutes.

Frazer finishes his test in 30 minutes.

Who completed their test first? \_\_\_\_\_

7 I take a sip of this bottle of coke. There is 486 ml left. If I share it between 6 children, how much do they get each?

Prove it using a bar model.




They get \_\_\_\_ ml.