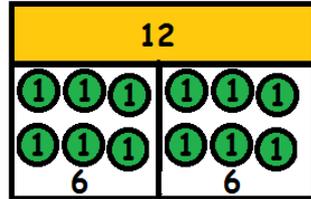


RECALL - BAR MODEL TO SHOW $\div 2$ (HALF) AND $\div 4$ (QUARTER)

Halving means dividing by two.

$\frac{1}{2}$

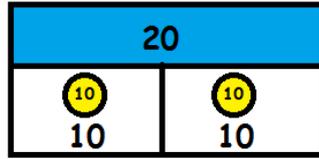
The whole is ____.



It is shared between 2 boxes.

____ \div 2 = ____

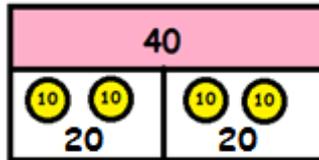
The whole is ____.



It is shared between 2 boxes.

____ \div 2 = ____

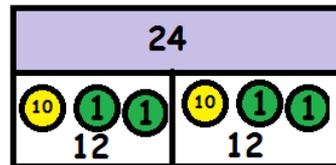
The whole is ____.



It is shared between ____ boxes.

____ \div 2 = ____

The whole is ____.



It is shared between ____ boxes.

____ \div 2 = ____

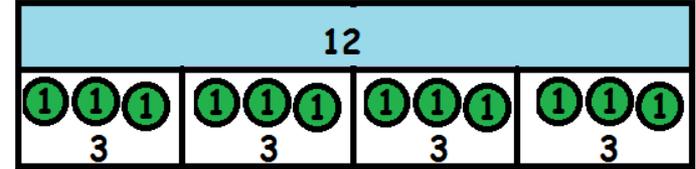
Quarter means dividing by four.

$\frac{1}{4}$

The whole is ____.

It is shared between 4 boxes.

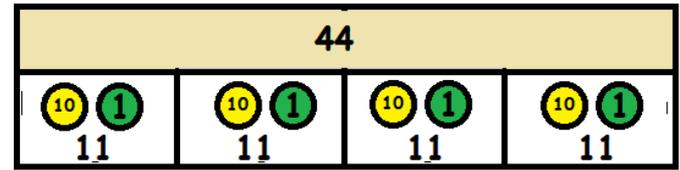
____ \div 4 = ____



The whole is ____.

It is shared between 4 boxes.

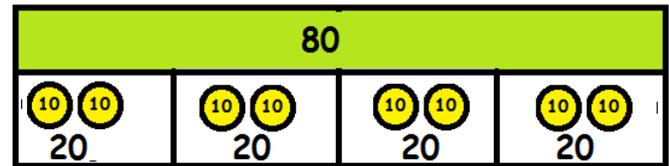
____ \div 4 = ____



The whole is ____.

It is shared between 4 boxes.

____ \div 4 = ____



LO: I CAN FIND FRACTIONS FOR A SET OF OBJECTS (HALF AND QUARTER).

Page

Success Criteria

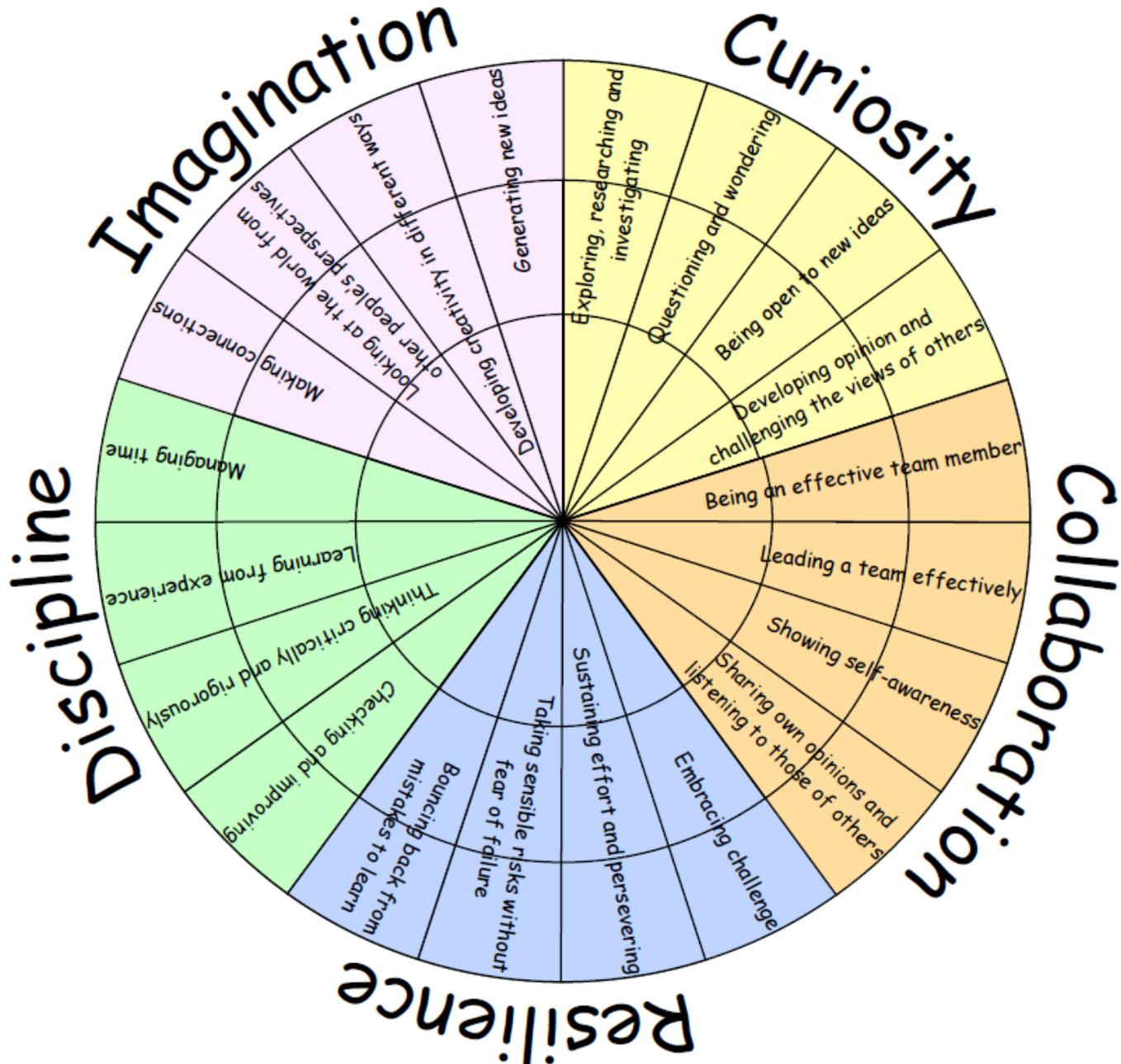
Some will even solve a variety of reasoning problems.

Some will find $\frac{2}{4}$, $\frac{3}{4}$ of totals.

Most will know how to find half and quarter of simple totals..

All will find half and quarter of simple totals (with equipment).

LEARNING HABITS?



GUIDED PRACTICE

Molly has baked a cake and needs to now decorate it. She used:

- $\frac{1}{2}$ a packet of strawberries.
- $\frac{1}{4}$ a bag of marshmallows.
- $\frac{2}{4}$ a punnet of blueberries
- $\frac{3}{4}$ a bag of peanuts.



The packet of strawberries has 14 in. 

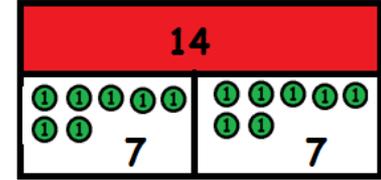
The bag of marshmallows has 20 in. 

The punnet of blueberries has 16 in. 

The bag of peanuts has 40 in. 

There are 14 strawberries and Molly uses $\frac{1}{2}$
To work out half, I need to divide by 2.

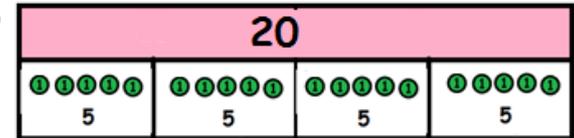
$$14 \div 2 = 7$$



$\frac{1}{2}$ of 14 strawberries is 7.

There are 20 marshmallows and Molly uses $\frac{1}{4}$
To work out a quarter, I need to divide by 4.

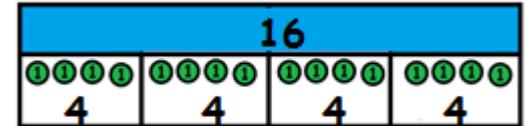
$$20 \div 4 = 5$$



$\frac{1}{4}$ of 20 marshmallows is 5.

There are 16 blueberries and Molly uses $\frac{2}{4}$
To work out a quarter, I need to divide by 4.

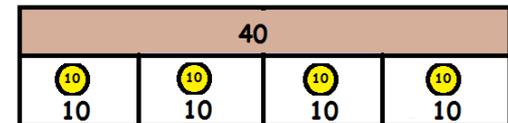
$$16 \div 4 = 4$$



$\frac{1}{4}$ of blueberries is 4. $\frac{2}{4}$ of blueberries is 8.

There are 40 peanuts and Molly uses $\frac{3}{4}$
To work out a quarter, I need to divide by 4.

$$40 \div 4 = 10$$



$\frac{1}{4}$ of 40 peanuts is 10. $\frac{3}{4}$ of 40 peanuts is 30.

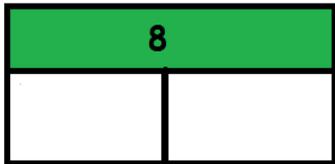
How many of each item does she use?

INTELLIGENT PRACTICE

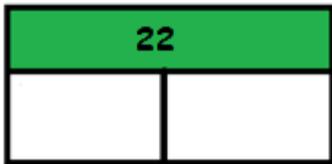
Share the total equally.

Use ① for units and ⑩ for tens.

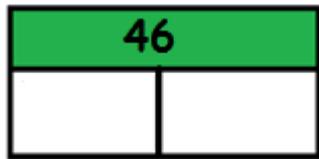
$\frac{1}{2}$ of 8.



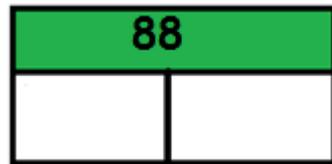
$\frac{1}{2}$ of 22



$\frac{1}{2}$ of 46



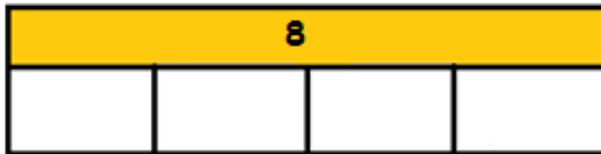
$\frac{1}{2}$ of 88



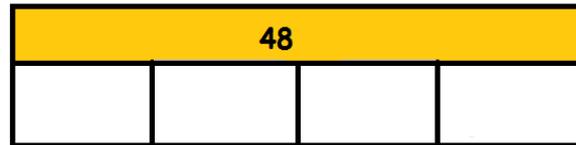
Share the total equally.

Use ① for units and ⑩ for tens.

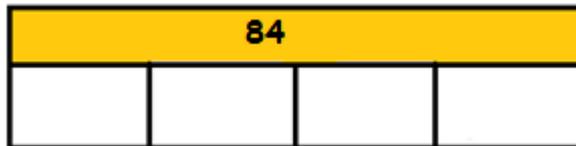
$\frac{1}{4}$ of 8



$\frac{1}{4}$ of 48



$\frac{1}{4}$ of 84



In your maths book, solve these questions by drawing the correct bar model.

$\frac{2}{4}$ of 12

$\frac{3}{4}$ of 24

$\frac{2}{4}$ of 28

$\frac{3}{4}$ of 44

$\frac{3}{4}$ of 84

The answer to these are the same.

True or false. Prove it.

$\frac{1}{2}$ of 92 $\frac{2}{4}$ of 92.

3 BEFORE ME

A half means share by 2.

A quarter means share by 4.

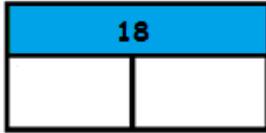


DIVE DEEPER 1

1 Find $\frac{1}{2}$ of 18 glasses.



Solve it using a bar model.

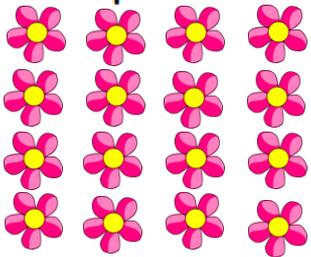


Write the calculation.

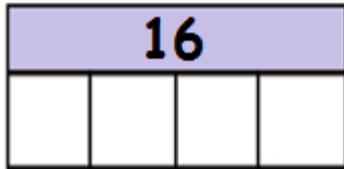
$$\square \div 2 = \square$$

$\frac{1}{2}$ of 18 glasses is _____.

2 Find $\frac{1}{4}$ of 16 flowers.



Solve it on the bar model.



Write the calculation.

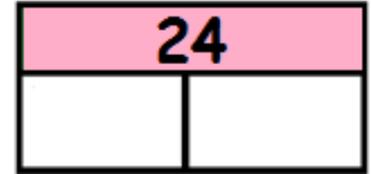
$$\square \div 4 = \square$$

$\frac{1}{4}$ of 16 flowers is _____.

3 A school buys 24 books. $\frac{1}{2}$ of the books go to year 3.

How many books do they get?

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

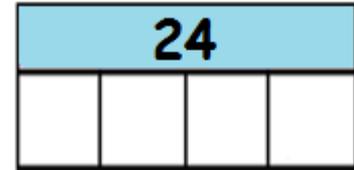



$\frac{1}{2}$ of 24 books is _____.

4 Find $\frac{1}{4}$ of the pencil crayons. Solve it on the bar model.

Write the calculation.

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



$\frac{1}{4}$ of the pencils is _____.

5 Molly is baking another cake. She uses:

• $\frac{1}{2}$ a punnet of cherries.



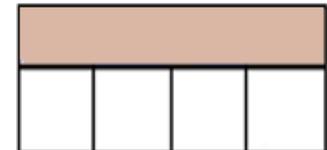
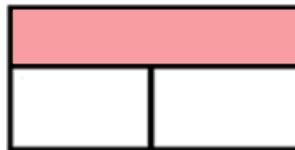
• $\frac{1}{4}$ of a bag of hazelnuts.



There are 22 cherries in a punnet.
There are 20 hazelnuts in a bag.

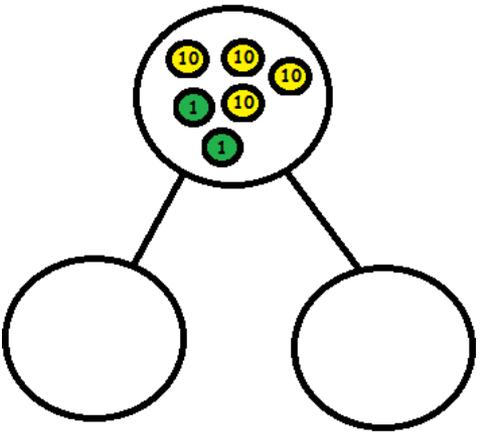
$22 \div \underline{\quad} = \underline{\quad}$ cherries.

$20 \div \underline{\quad} = \underline{\quad}$ hazelnuts



DIVE DEEPER 2

1 Which calculation does this whole - part - part Model show?
Tick one and solve it.



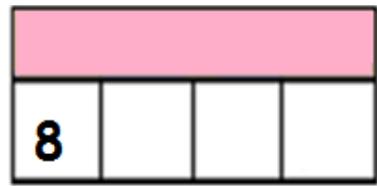
- $24 \div 2 =$
- $24 \div 4 =$
- $42 \div 2 =$
- $42 \div 4 =$

2 Lewis has a bunch of balloons. He bursts 8. This is $\frac{1}{4}$ of the total of balloons.



How many balloons were there to begin with?

Complete the bar model

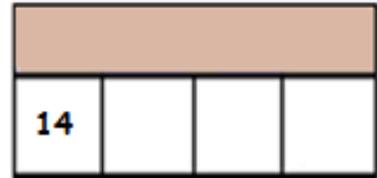


Lewis had ___ balloons to begin with.

3 A fisherman catches 14 fish on Monday. This is $\frac{1}{4}$ of the fish he caught that week.



Complete the bar model.



He caught ___ fish Altogether.

4 During an Easter egg hunt, Hannah collected some chocolate eggs and placed them in her basket. Altogether, she has 124 eggs.



$\frac{1}{2}$ of them are pink.

$\frac{1}{4}$ of them are yellow.

How many eggs were pink? How many were yellow?
In your maths book, draw the bar model and write the calculation.

5 One recipe needs half of each ingredient. Write the recipe list.



A different recipe uses a quarter of each ingredient. Write the recipe.

Explain how you solved it.

.....

.....

.....

DIVE DEEPER 3

1 Here are 16 eggs.

Two quarters of them are used to make an omelette.



$\frac{2}{4}$ of 16 eggs is ____.

16			

2 I eat 12 party ring biscuits.

Three quarters of them were pink.



12			

$\frac{3}{4}$ of 12 biscuits is _____.

3 In a packet of 24 HARIBO, three quarters of them are cola bottles.



24			

$\frac{3}{4}$ are _____ cola bottles.

4 A piece of ribbon is 32 cm long. I use three quarters to wrap a present.

What length of ribbon was used? cm

5 I visit the fruit market and buy these items.

 44 raspberries  28 strawberries

 32 blackberries.  88 red currants

I then use these amounts to make a fruit salad.

How many of each item did I use? Use a bar model.

$\frac{2}{4}$ of raspberries is ____.

$\frac{3}{4}$ of strawberries is ____.

$\frac{2}{4}$ of blackberries is ____.

$\frac{3}{4}$ of red currants is ____.

6 For pocket money, Abi gets $\frac{2}{4}$ of £20.

This is £ ____.



7 A race track is 400 metres long.

Ted runs $\frac{3}{4}$ of it. This is _____ metres.



8 Which dog eats the most bones in a year? Prove it. Explain.

 Rufus eats $\frac{1}{2}$ of 140.	 Milo eats $\frac{1}{4}$ of 248.	 Jasper eats $\frac{2}{4}$ of 90.	 Amber eats $\frac{3}{4}$ of 100.
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