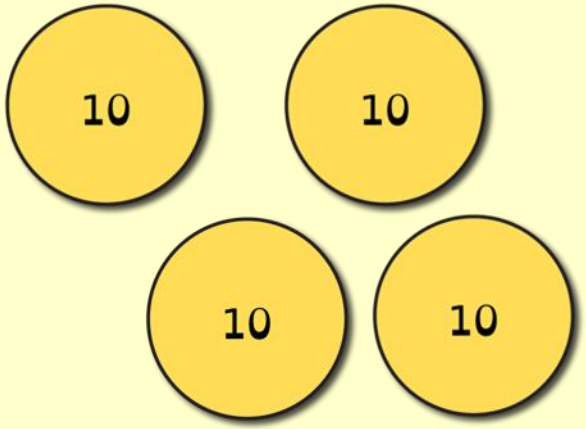
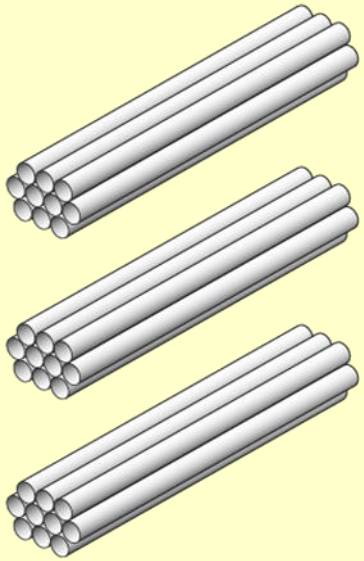
Division

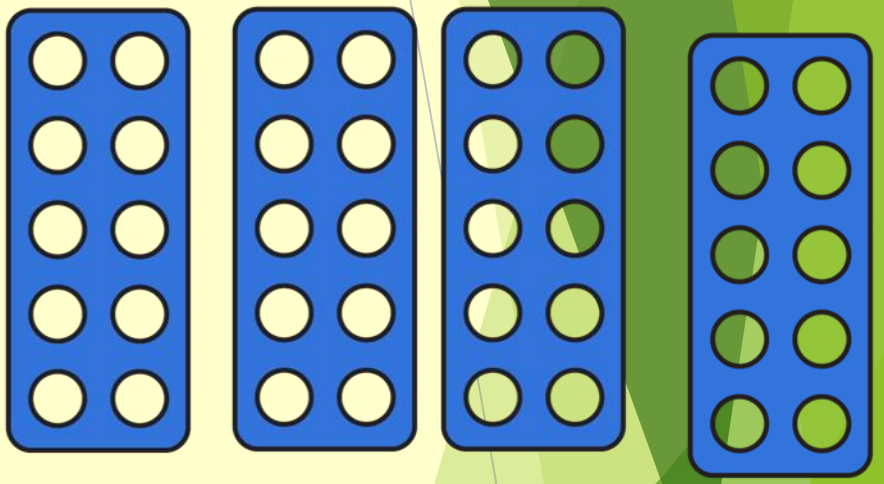
Starter

Starter:

Which one doesn't belong?







Explain your answer.

Date: 18.05.20

LO: To recognise equal groups

Key Vocabulary

Date: 18.05.20

LO: To recognise equal groups

Success Criteria

I can use mathematical equipment and pictorial representations to make equal groups by sharing

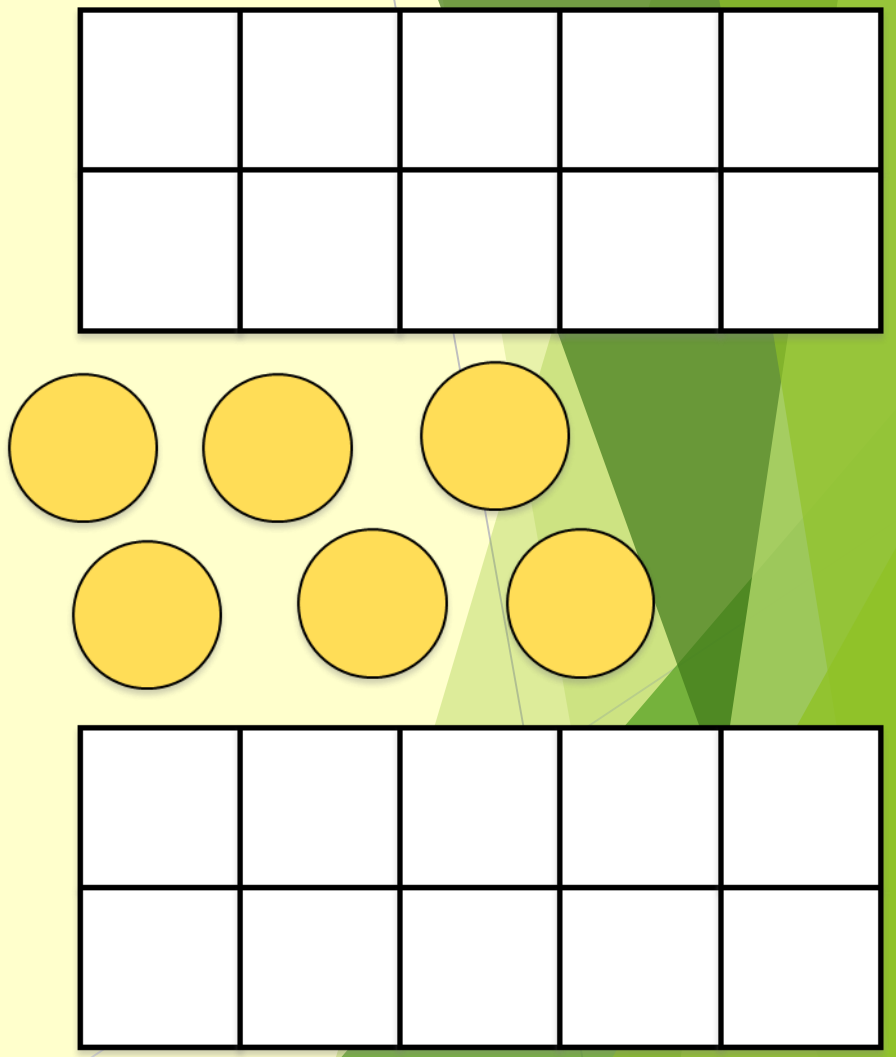
I can explain my reasoning when using mathematical equipment and pictorial representations to make equal groups by sharing

Descriptive Teaching

Talking Time:

Share the counters equally between both ten frames and complete the sentences below:

In total, there are _ counters.
There are _ ten frames.
There are _ counters in each ten frame.



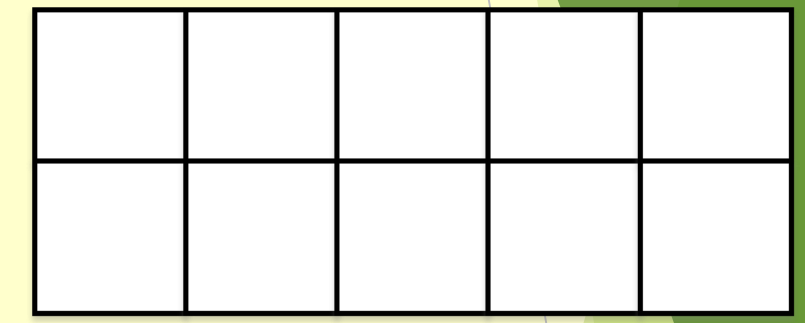
Descriptive Doing

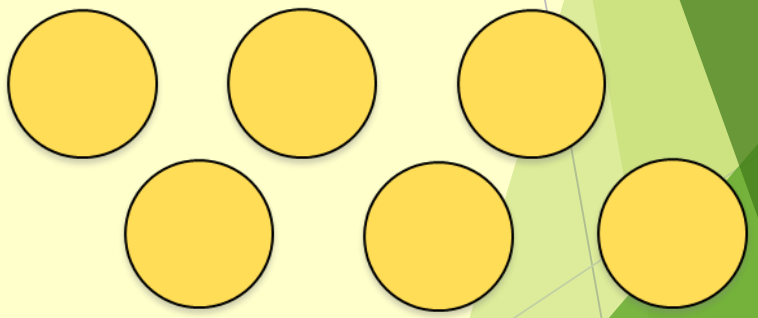
Now try this:

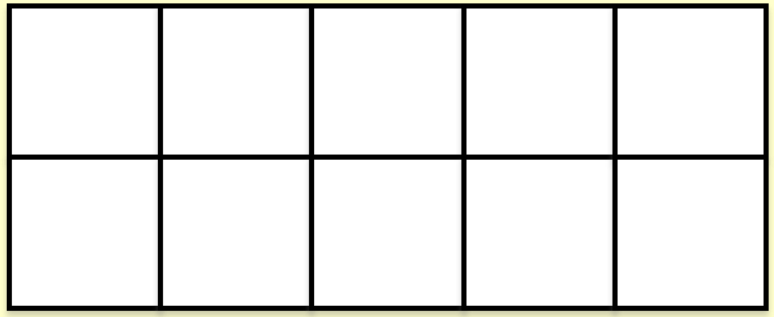
Talking Time:

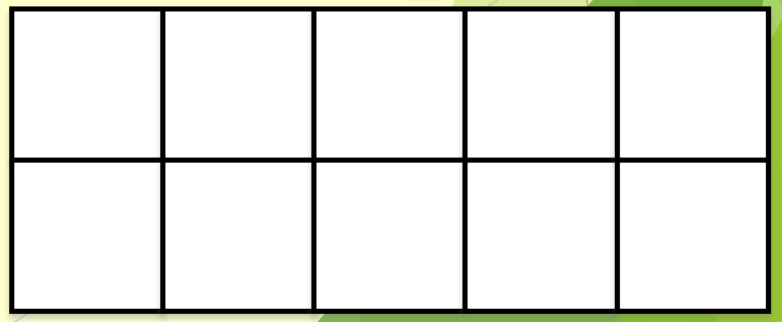
Share the counters equally between each of the ten frames and complete the sentences below:

In total, there are _ counters.
There are _ ten frames.
There are _ counters in each ten frame.







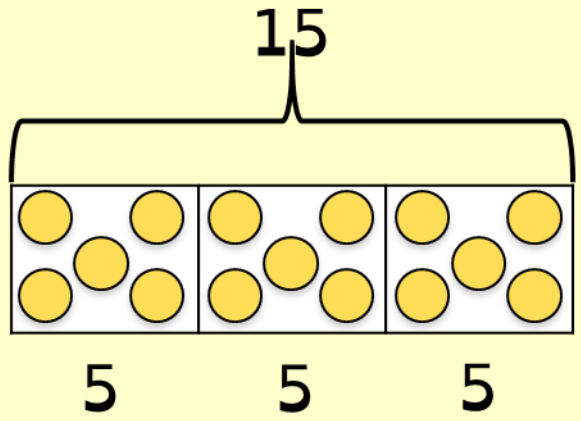


Reflective Doing

Talking Time:

Ruth has used a bar model to divide 15 into 3 equal groups.

How does the number sentence match the bar model?



She writes 15 ÷ 3 = 5

How does her model demonstrate the number sentence above?

Choose your challenge

Create a bar model for:

24 ÷ 2 = 12

Create a bar model for:

1. 30 ÷ 5 =
2. 45 ÷ 5 =
3. 10 ÷ 10 =
4. 20 ÷ 10 =

Jamal says, “I can work out 60 ÷ 2, as I know that 6 ÷ 2 = 3 and 60 is the same as 6 tens, so 60 ÷ 2 = 30.”

Do you agree? Use Base 10 pieces, Numicon 10 shapes or place value counters to prove your response.

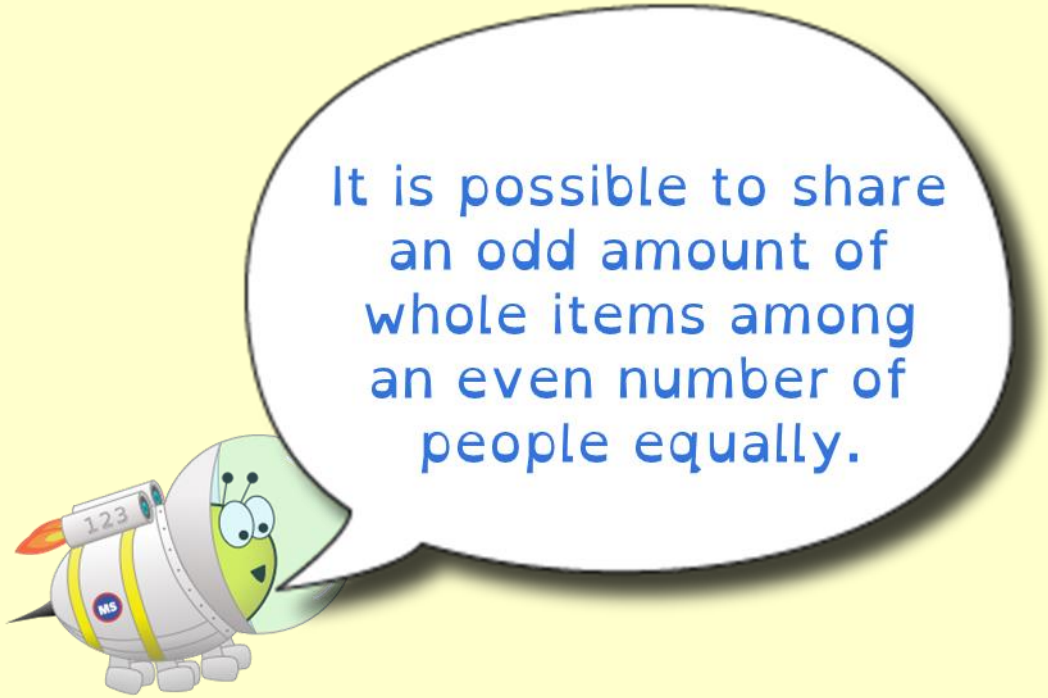
Is it possible to use Jamal’s strategy and similar equipment to solve:

80 ÷ 2?

70 ÷ 2?

Explain your answer.

Reflection Time



Is Astrobee's statement always, sometimes or never true?

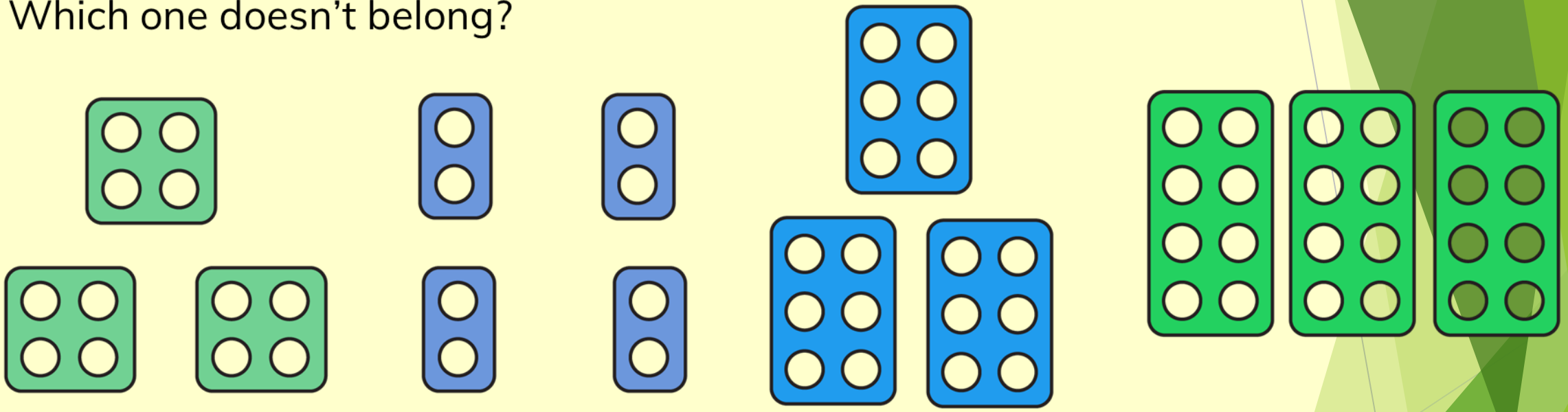
Explain your answer.

Division

19.05.20

Starter

Which one doesn't belong?



Explain your answer.

Date: 19.05.20

LO: To make equal groups by grouping

Key Vocabulary

Date: 19.05.20

LO: To make equal groups by grouping

Success Criteria

I can use mathematical equipment and pictorial representations to make equal groups by grouping

I can explain my reasoning when using mathematical equipment and pictorial representations to make equal groups by grouping

Descriptive Doing

Share the muffins between the boxes. How many are in each box?

What is the number sentence?

Talking Time:

Muffins are baked in batches of 6.

We need to put them in boxes holding 2 muffins each.

Complete the following sentences:

In total, there are __ muffins.
We place __ muffins in each box.
There are __ boxes needed in total.

Can you draw the bar model?

Descriptive Teaching

Talking Time:

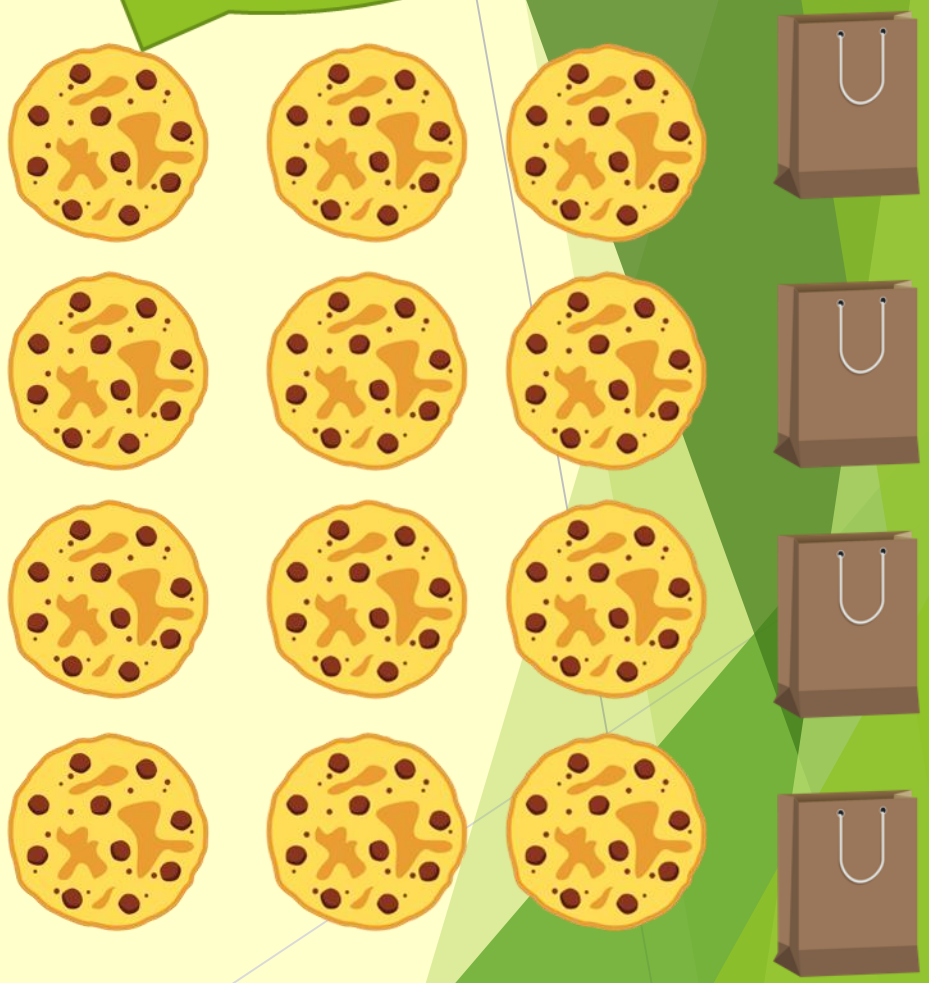
Cookies are baked in batches of 12.

We need to put them in bags holding 3 cookies each.

How many bags will we need?

In total, there are __ cookies.
We place __ cookies in each bag.
There are __ bags needed in total.

What is the number sentence?



Can you draw the bar model?

Reflective Teaching

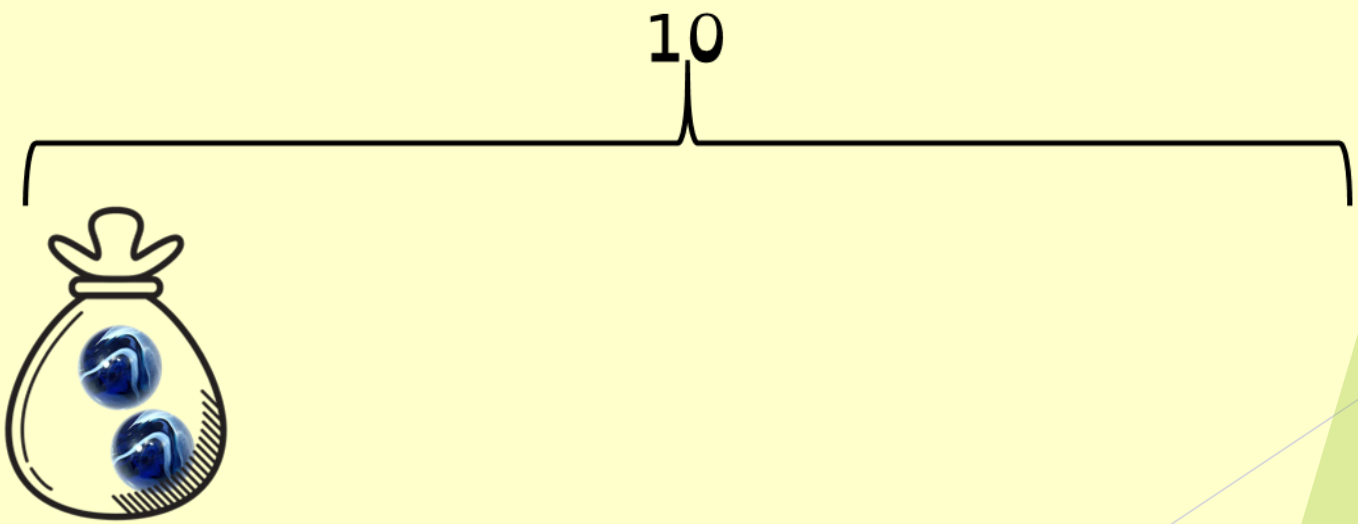
Talking Time:

Jamal has 10 marbles.

He places two marbles in each bag.

How many bags does he fill?

10	÷	2	=	



Reflective Doing

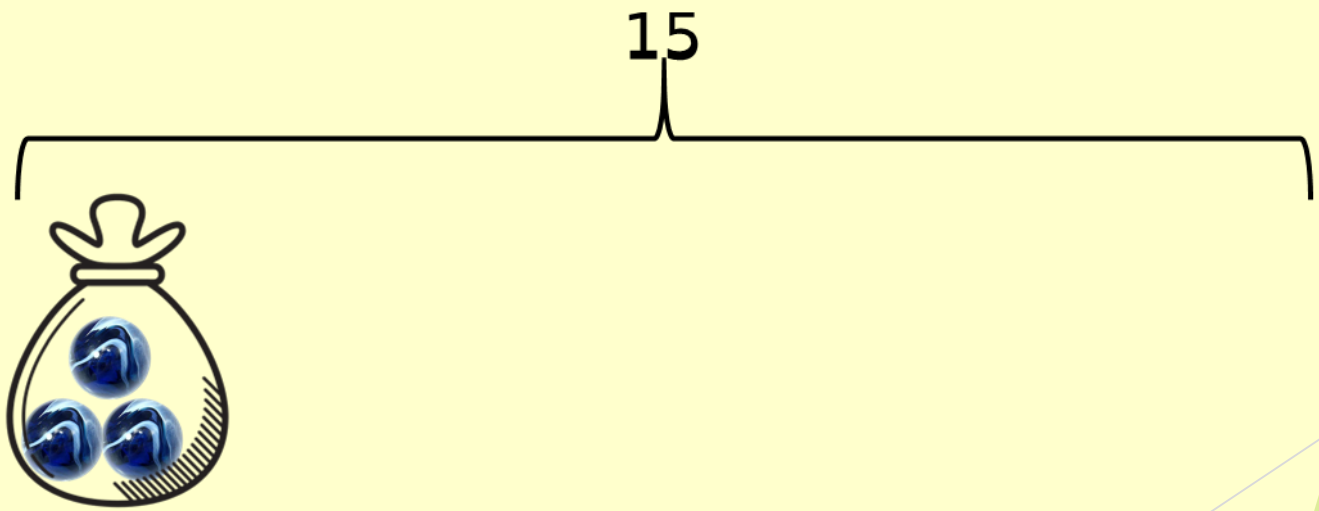
Talking Time:

Yasmin has 15 marbles.

She places three marbles in each bag.

How many bags does she fill?

15	÷	3	=	



Choose your challenge

Ruth has 20 marbles.

She places five marbles in each bag

How many bags does she fill?

a) Ahmed uses a number line to find out how many groups of 2 can be made from 8
b) How many groups of 2 can be made from 12?
c) How many groups of 3 can be made from 12?
d) How many groups of 5 can be made from 10?
e) How many groups of 5 can be made from 20?

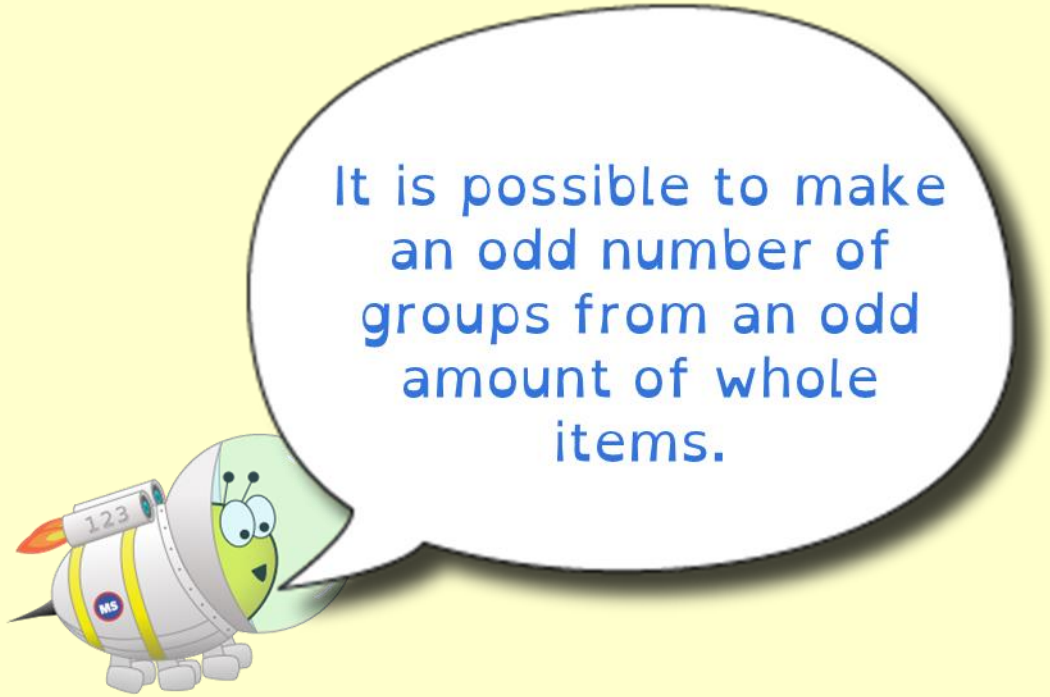
You have 32 cubes.

Put them into as many different equal groups as you can.

Write down the different groupings you find.

Example: 32 equal groups of 1 cube

Reflection Time



Is Astrobee's statement always, sometimes or never true?
Explain your answer.

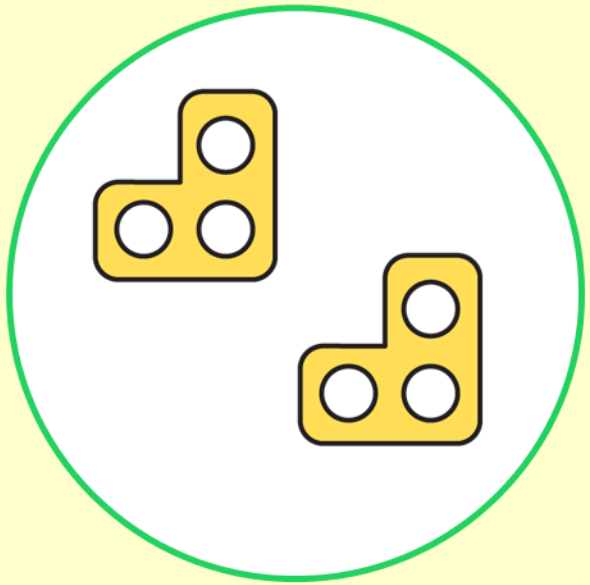
Division

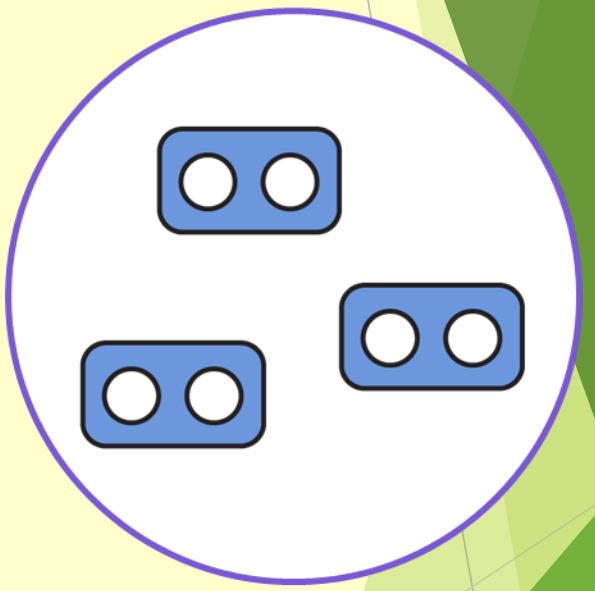
20.05.20

Starter

Starter:

What's the same? What's different?





Explain your answer.

Date: 20.05.20

LO: To divide by 2

Key Vocabulary

Date: 20.05.20

LO: To divide by 2

Success Criteria

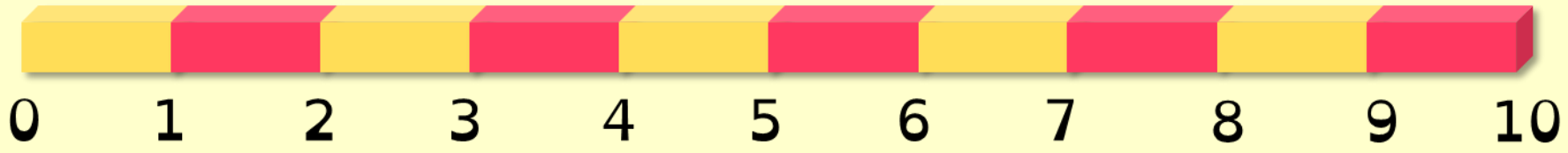
I can use mathematical equipment and pictorial representations for grouping and sharing to divide by 2

I can explain my reasoning when using mathematical equipment and pictorial representations for grouping and sharing to divide by 2

Descriptive Teaching

Talking Time:

Use a counting stick to practice the two times table as a class...



Can you fill in the counting stick?

What are 0 x 2 and 10 x 2?

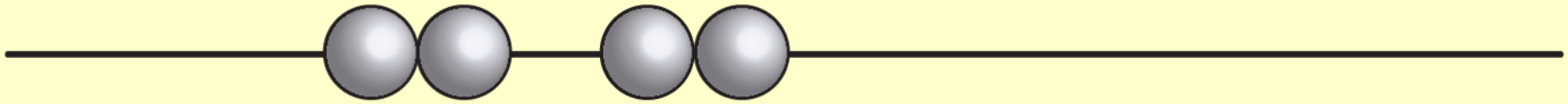
Should I put 10 in the 4 x 2 place?

Reflective Teaching

Talking Time:

What does the bead string show?

Referring to the number bead string, complete the sentences below.



In total, there are __ beads.
They have been separated into equal groupings of __ beads.
There are __ groups in total.

	÷		=	

	x		=	

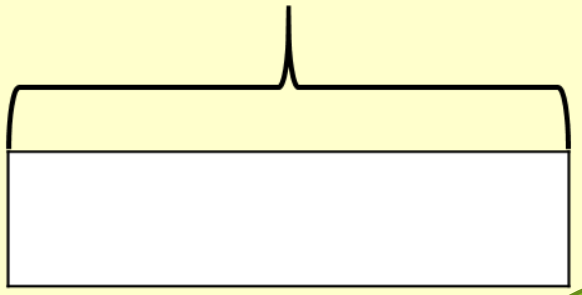
Can you draw the bar model?

Reflective Doing

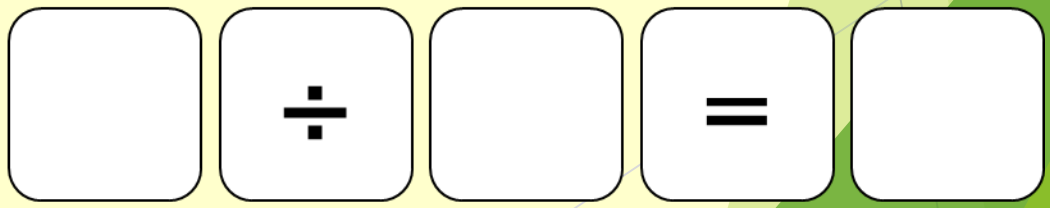
Ahmed and James have a total of 12 brownies. They share them equally.
How many brownies does each person receive?

In total, there are __ brownies.
They have been shared by __ people.
Each person receives a total of __ brownies.

Complete the number sentence



Complete the bar model



Challenge

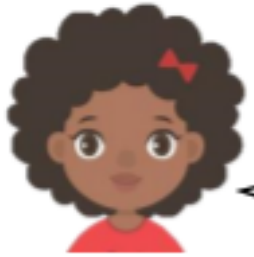
1a. Kyle has 6 sweets. He gives half of them to Katie.

We will get 3 sweets each.

Is Kyle correct? Explain why.

D

1b. Arooj has 14 sweets. She gives half of them to Max.



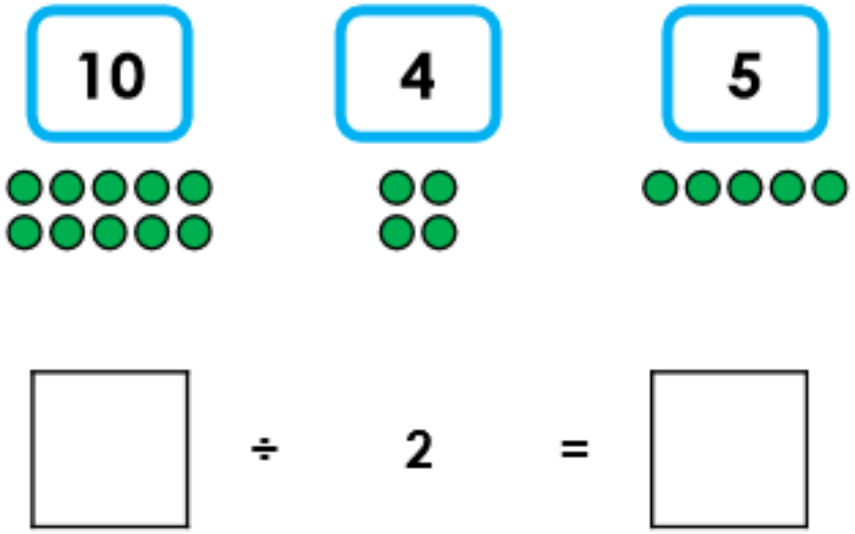
We will get 8 sweets each.

Is Arooj correct? Explain why.

D

Challenge

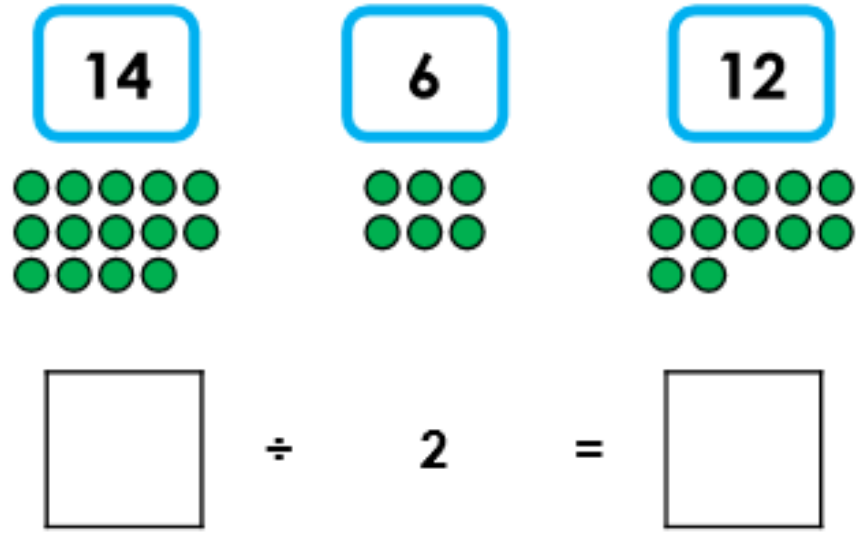
2a. Use the correct digit cards to complete the calculation below.



D

PS

2b. Use the correct digit cards to complete the calculation below.



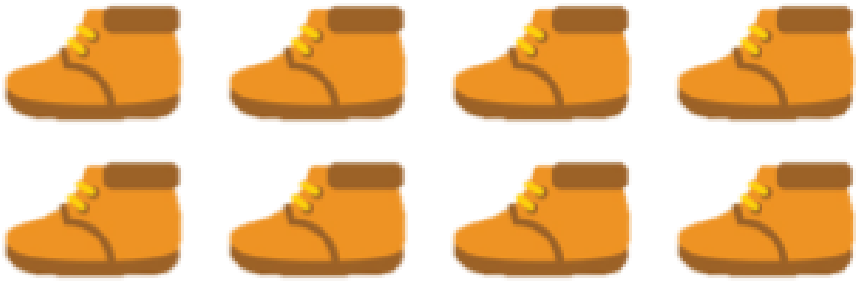
D

PS

Challenge

3a. Mum is tidying up and she finds 8 shoes.

How many pairs can she make?

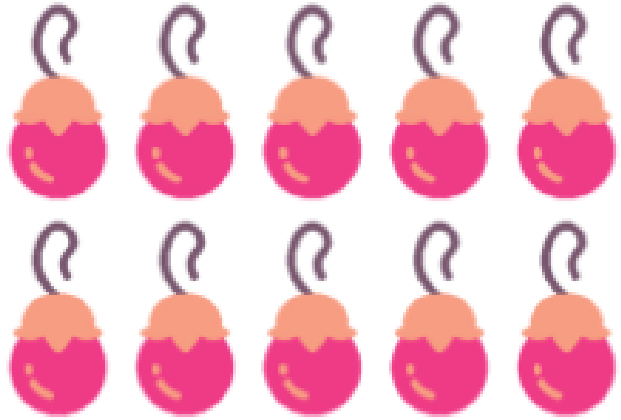


D

PS

3b. Dad is tidying up and he finds 10 earrings.

How many pairs can he make?

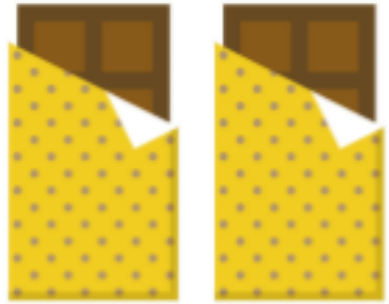


D

PS

Challenge

4a. Emma has 18 pieces of chocolate. She gives half of them to Mike.



We will get 8 pieces each.

Is Emma correct? Explain why.

E

R

4b. Lia has 22 pieces of chocolate. She gives half of them to Joe.

Joe will get 11 pieces.

Is Lia correct? Explain why.

E

R

Challenge

5a. Use the digit cards to make 4 division calculations.

10	16	40
5	20	8

☐ ÷ 2 = ☐

E

PS

5b. Use the digit cards to make 4 division calculations.

24	6	2
4	12	8

☐ ÷ 2 = ☐

E

PS

Challenge

6a. Dad is tidying up and he finds 16 socks. **How many pairs can he make?**  **He finds 6 more socks. Can he still make pairs?** E PS	**6b. Sam is tidying up and she finds 24 socks.** **How many pairs can she make?**  **She loses 8 socks. Can she still make pairs?** E PS

Challenge

7a. Sam has 24 sweets, he eats 2 and then he gives half of what is left to Lee.

We will get 10 sweets each.

Is Sam correct? Explain why.

GD

R

7b. Ola has 16 sweets. She finds 6 more and then she gives half to Will.

We will get 8 sweets each.

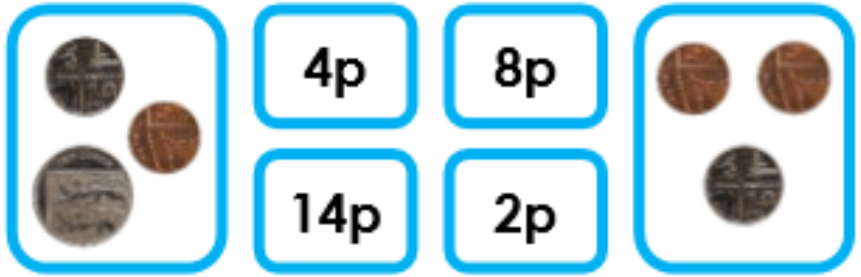
Is Ola correct? Explain why.

GD

R

Challenge

8a. Use the digit cards to make 4 division calculations.

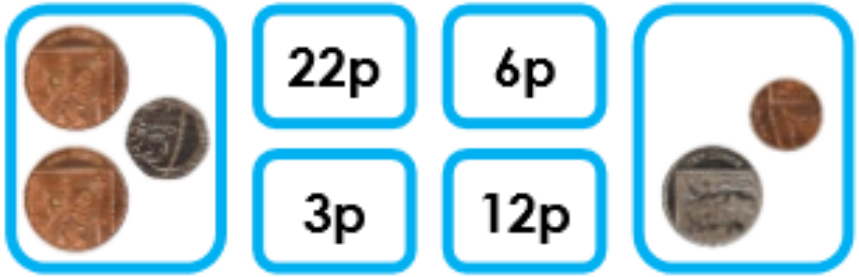


☐ ÷ 2 = ☐

GD

PS

8b. Use the digit cards to make 4 division calculations.



☐ ÷ 2 = ☐

GD

PS

Challenge

9a. Kim is tidying up and she finds 18 red gloves and 6 blue gloves.

How many pairs can she make?

She loses 3 of the red and 3 of the blue gloves. Can she still make pairs?

GD

PS

9b. Albie finds 14 green gloves and 12 grey gloves.

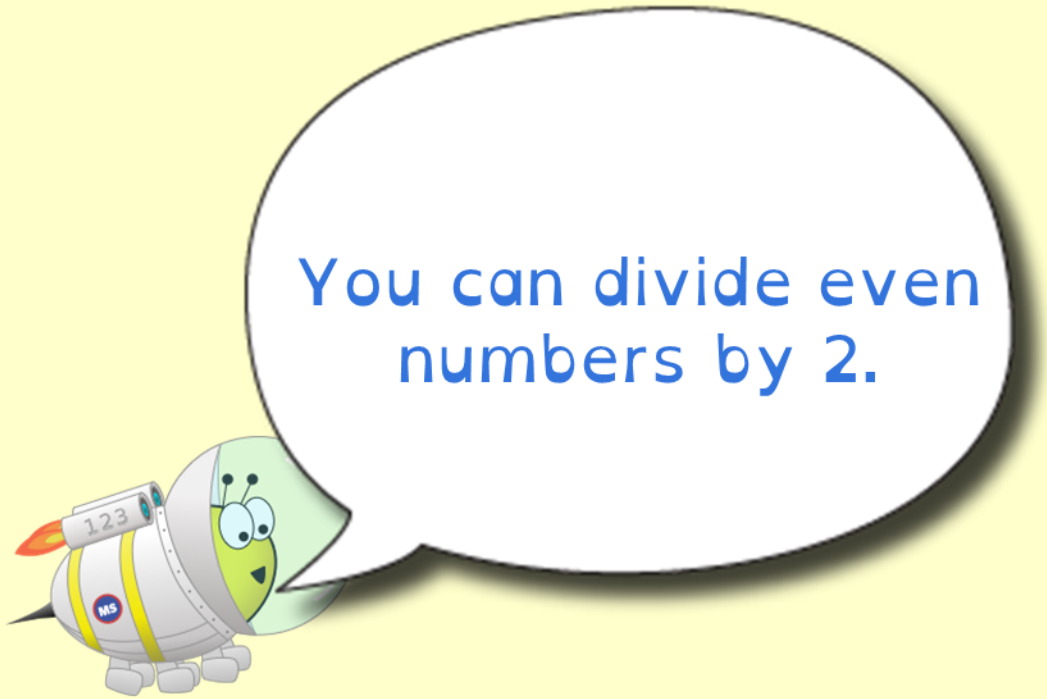
How many pairs of gloves has he found?

He loses 5 of the green and 1 of the grey gloves. Can he still make pairs?

GD

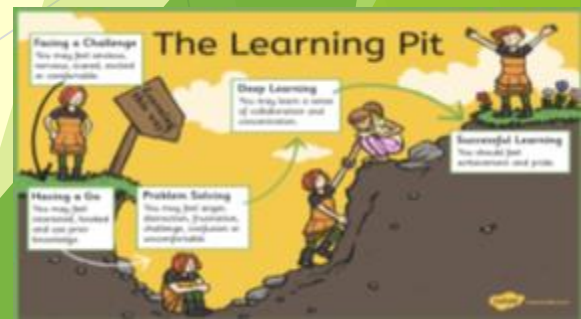
PS

Reflection Time



Is Astrobee's statement always sometimes or never true?

Explain your answer.



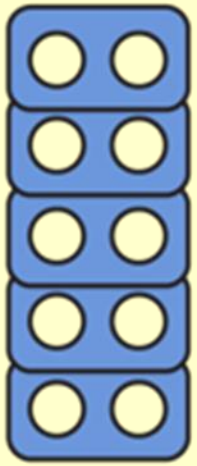
Division

21.05.20

Starter

Starter:

What's the same? What's different?



Explain your answer.

Date: 21.05.10

LO: To divide by 5

Key Vocabulary

Date: 21.05.20

LO: To divide by 5

Success Criteria

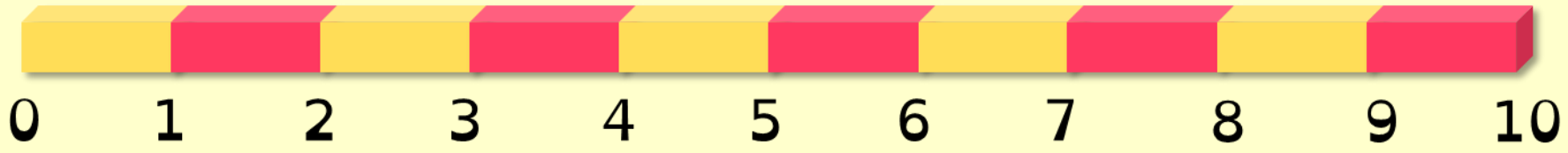
I can use my knowledge of grouping and sharing strategies, as well as my knowledge of the 5 times table, to divide by 5

I can explain my reasoning when using my knowledge of grouping and sharing strategies, as well as my knowledge of the 5 times table, to divide by 5

Descriptive Doing

Talking Time:

Use a counting stick to practice the five times table as a class...



Can you fill in the counting stick?

What are 0 x 5 and 10 x 5?

Should I put 25 in the 4 x 5 place?

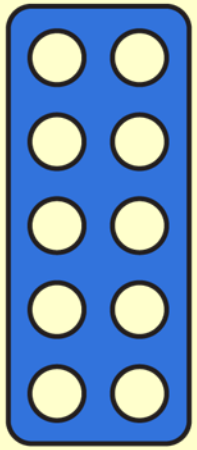
We know 2 x 5 and 4 x 5, what is 3 x 5?

Reflective Teaching

Talking Time:

How many 5 shapes can we use to cover the shape below?

Use that information to complete the following sentences:



In total, the shape shows __.
__ five shapes is the same as __.
__ is the same as __ five shapes.

How many 5's complete the 10 shape?

Complete the sentence

Choose your challenge

Complete the number sentences

Write four number sentences that use the three numbers listed each time:

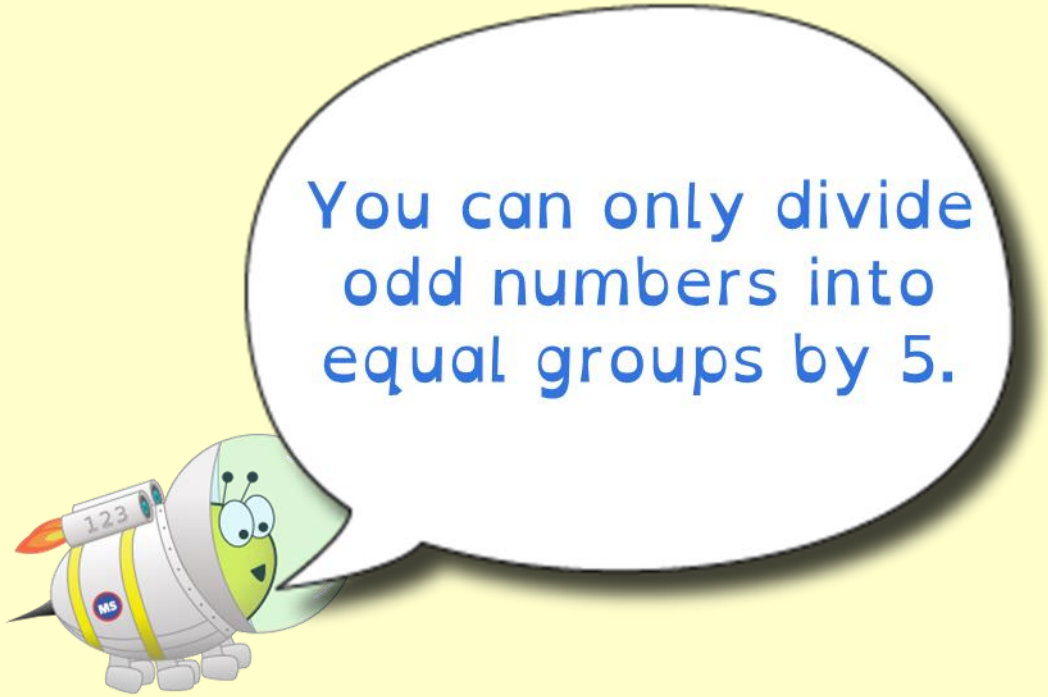
2, 10, 5

5, 20, 4

25, 5, 5

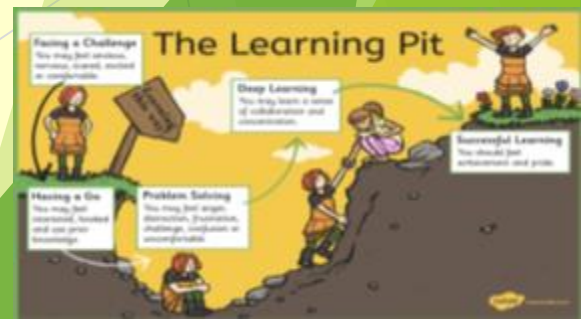
Reasoning and problem solving

Reflection Time



Do you agree?

Explain your answer.



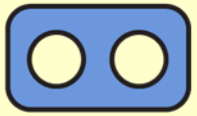
Division

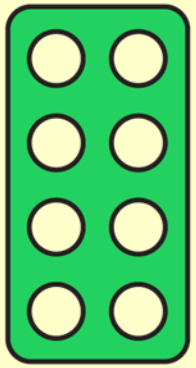
22.05.20

Starter

Starter:

Which one doesn't belong?





Explain your answer.

Date: 22.05.20

LO: To identify odd and even numbers

Key Vocabulary

Date: 22.05.20

LO: To identify odd and even numbers

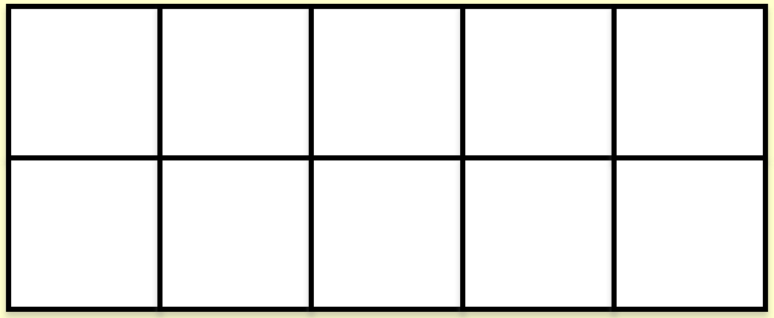
Success Criteria

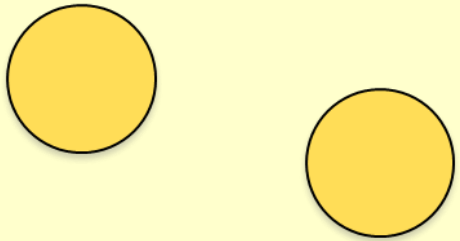
I can use mathematical equipment to explore the properties of odd and even numbers

I can explain my reasoning when using mathematical equipment to explore the properties of odd and even numbers

Descriptive Doing

Is this odd or even?



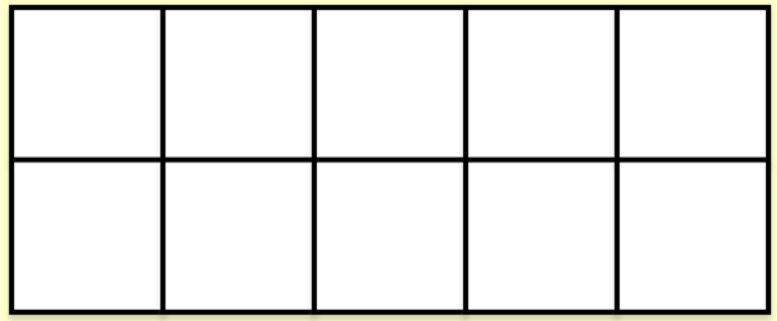


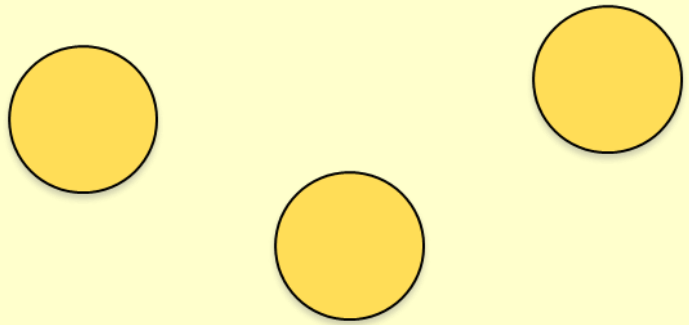
Share the counters on the ten frame- does it have a partner?

Talking Time:

Can you make even pairs in a ten frame with the counters below?
Is the number odd or even?

Is this odd or even?

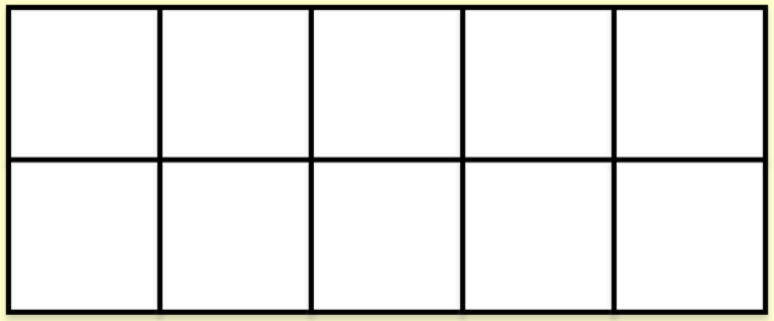


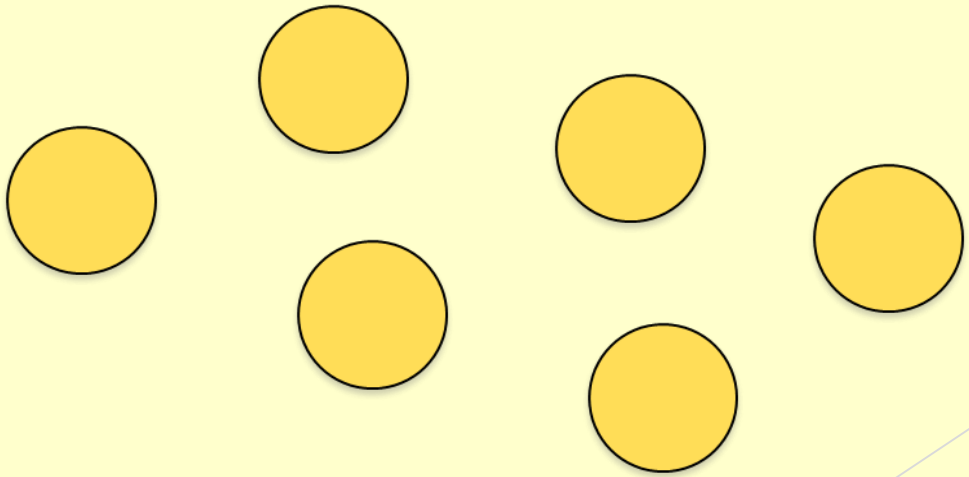


Share the counters on the ten frame- does it have a partner?

Talking Time:

Can you make even pairs in a ten frame with the counters below?
Is the number odd or even?





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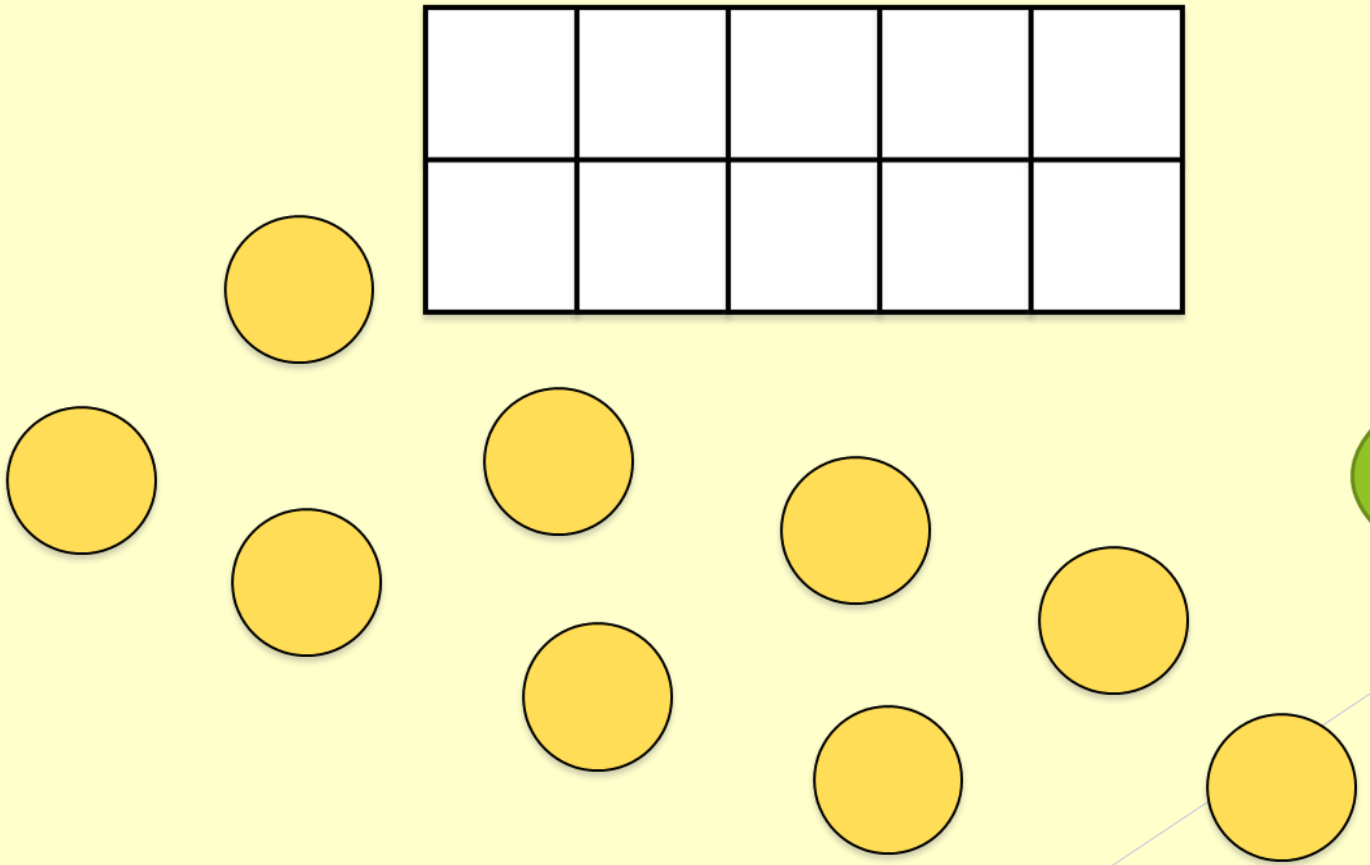


Share the counters on the ten frame- does it have a partner?

Challenge

Make some playdough and roll it out
Print some numbers:

Which numbers can be cut in half evenly?

Which numbers can't?

Have you discovered a rule?

Explain your answer.

Use counters and a ten frame (or ten frames for the larger numbers) to decide whether the following numbers are odd or even. Then place them in the correct column in the table.

12
5 11
17
4 8
16
10 19
9

odd	even

Challenge

7a. Allie rolls three dice.

Her total is an even number between 9 and 13.

What numbers could Allie have rolled?

GD PS

7b. Emmett rolls three dice.

His total is an odd number between 8 and 12.

What numbers could Emmett have rolled?

GD PS

8a. Choose the correct numbers to balance the scales.

□ + □ □ + □ + □

odd even

13  three 14

thirteen 

GD PS

8b. Choose the correct numbers to balance the scales.

□ + □ □ + □ + □

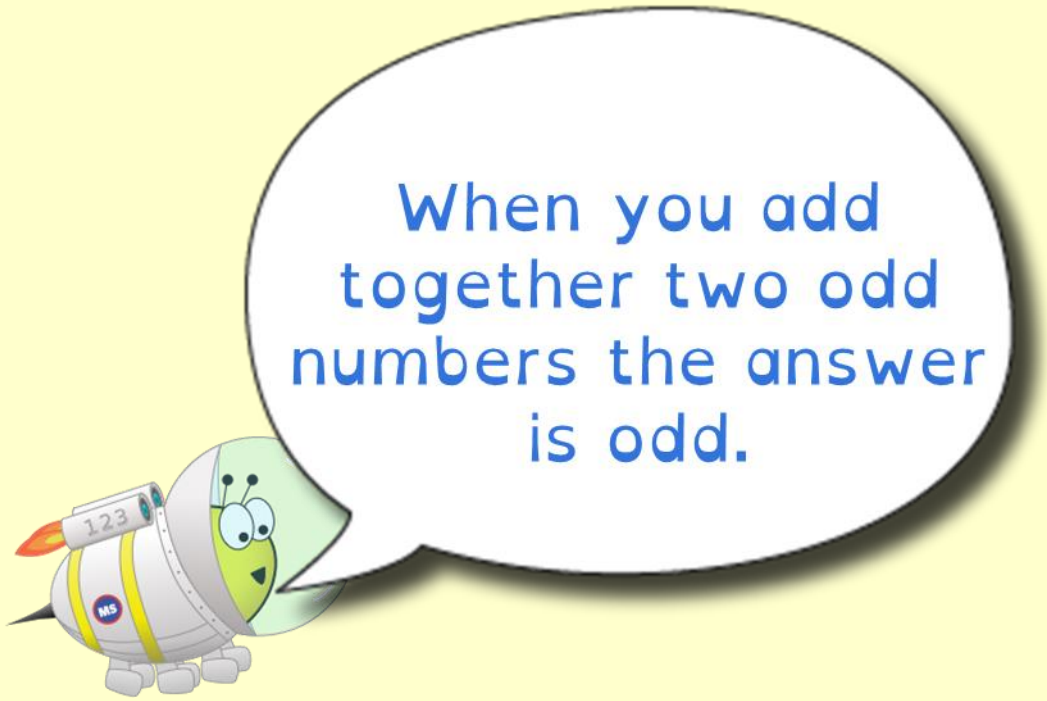
odd even

 twenty-one 28 

13 four

GD PS

Reflection Time



Is Astrobee's statement always sometimes or never true?
Explain your answer.