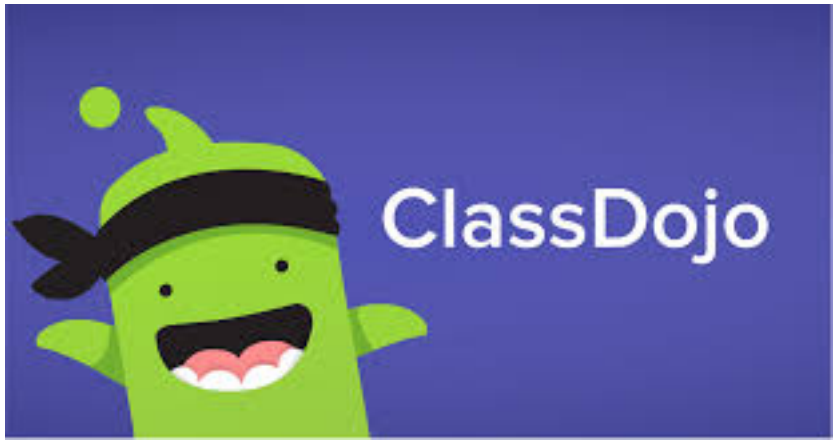
Year 3
Maths Lesson

12.1.21

Home Learning Powerpoint – If you have any problems, just send us a Dojo message.

On this maths powerpoint:

- 1 warm up activity
- 1 maths lesson



Remember – you can get Dojos for posting pictures of your work on Class Dojo!

Warm Up Activity

Practise the 3 and 6 x tables.

Easier

1. 3 x 3 =
2. 5 x 3 =
3. 3 x 7 =
4. 3 x 9 =
5. 4 x 3 =
6. 3 x 11 =
7. 2 x 3 =
8. 3 x 12 =
9. 1 x 3 =
10. 3 x 6 =

Harder

1. 6 x 6 =
2. 5 x 6 =
3. 6 x 7 =
4. 6 x 9 =
5. 4 x 6 =
6. 6 x 11 =
7. 2 x 6 =
8. 6 x 12 =
9. 1 x 6 =
10. 6 x 6 =

Answers on the next page – no peeking!

Warm Up Activity

Answers!

Now mark your work.

How did you do?

Easier

1. 3 x 3 = 9
2. 5 x 3 = 15
3. 3 x 7 = 21
4. 3 x 9 = 27
5. 4 x 3 = 12
6. 3 x 11 = 33
7. 2 x 3 = 6
8. 3 x 12 = 36
9. 1 x 3 = 3
10. 3 x 6 = 18

Harder

1. 3 x 6 = 18
2. 5 x 6 = 30
3. 6 x 7 = 42
4. 6 x 9 = 54
5. 4 x 6 = 24
6. 6 x 11 = 66
7. 2 x 6 = 12
8. 6 x 12 = 72
9. 1 x 6 = 6
10. 6 x 6 = 36

What do you notice about the x 3 and x 6 times tables?

Yes! The x 6 tables are double the x 3 tables

Maths Lesson

Write out your objective and date in your exercise book.

12.1.21

Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

We did some work on this last week.
Can you remember how to do it?

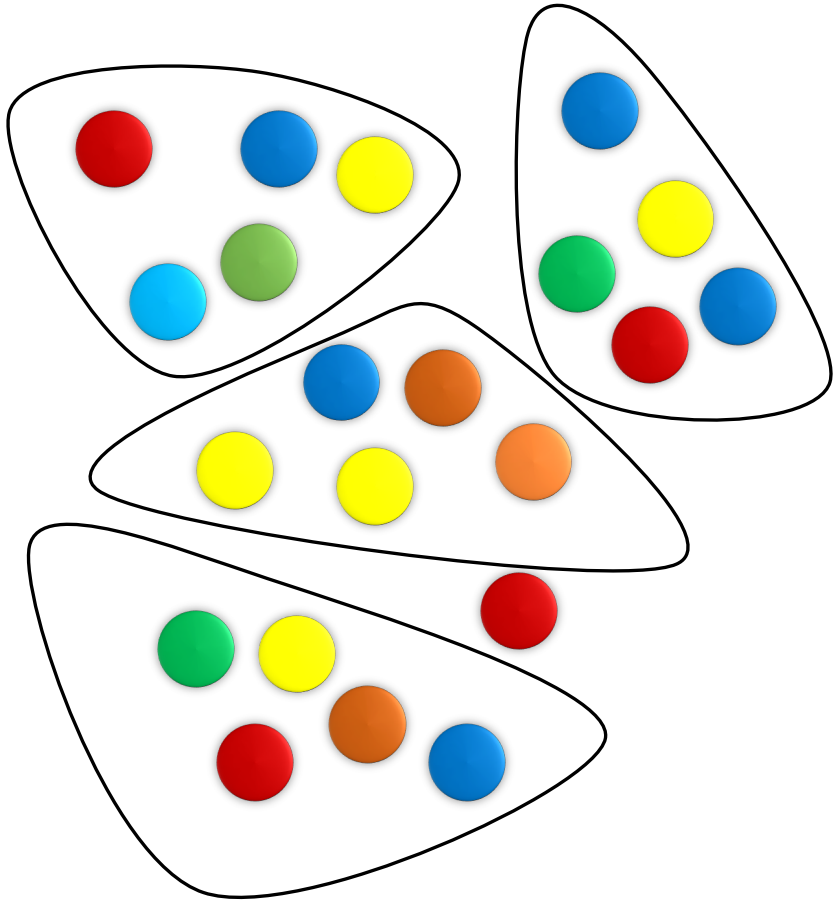
Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

How many 5s in 20?

We can write that as
20 ÷ 5 =
or **[_] × 5 = 20.**

21 ÷ 5.
What happens now?

Let's get **21 counters.**



What's happened?

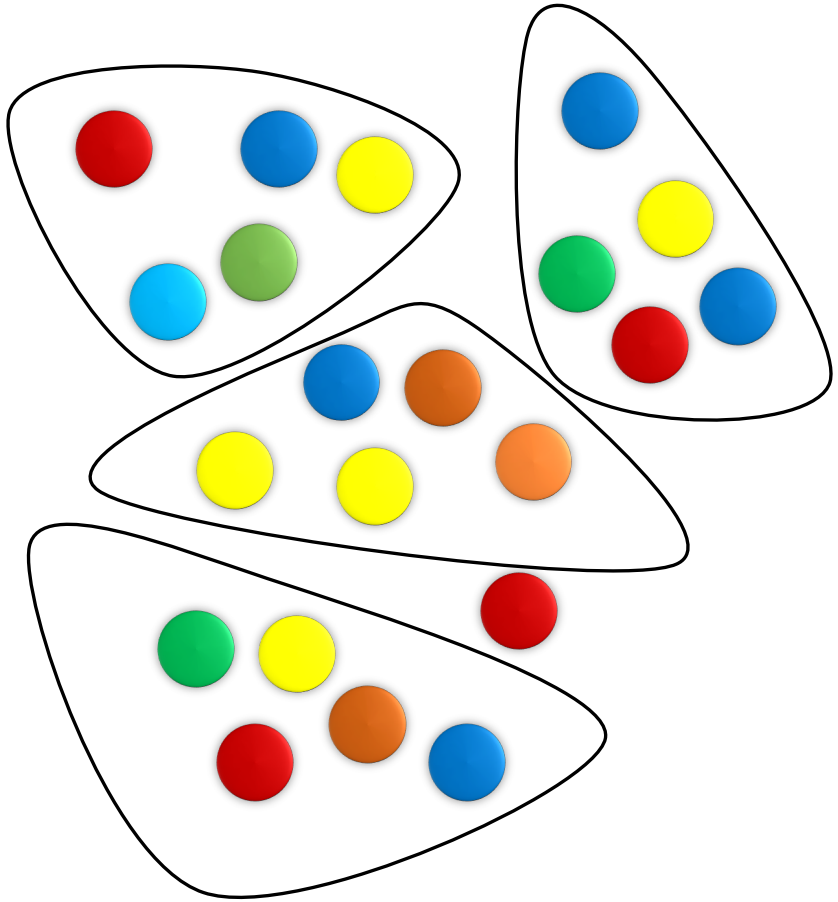
Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

We can make four groups of 5 but there is 1 counter left over!

We call that a remainder.

21 ÷ 5 = 4 r 1 .

We can use r for remainder.



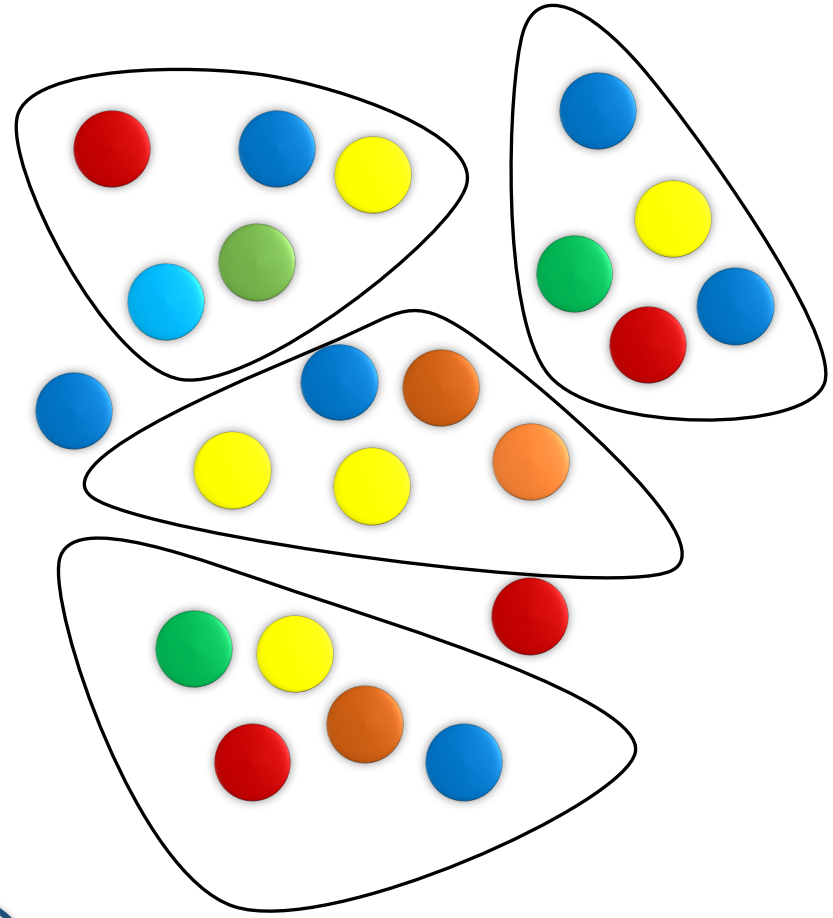
Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

Now there are 22 counters.

What would happen if we divided 22 by 5? Write a number sentence to show that.

Let's check!

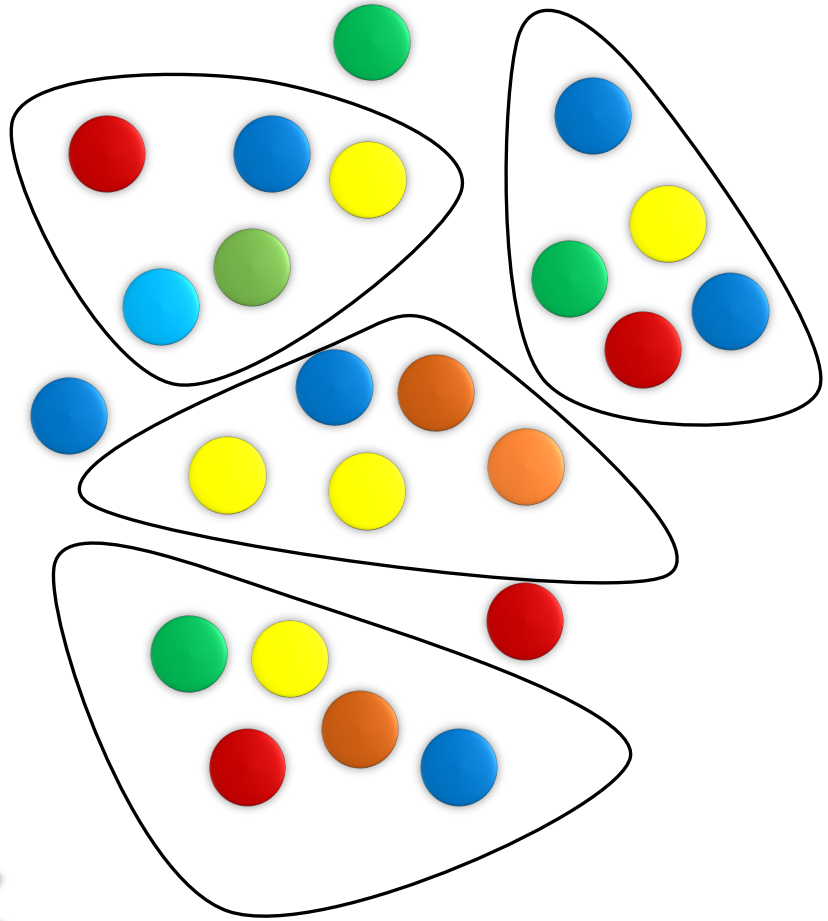
22 ÷ 5 = 4 r 2.



Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

21 ÷ 5 = 4 r 1.
22 ÷ 5 = 4 r 2.

What would happen if we divided 23 by 5? Write a number sentence to show that.

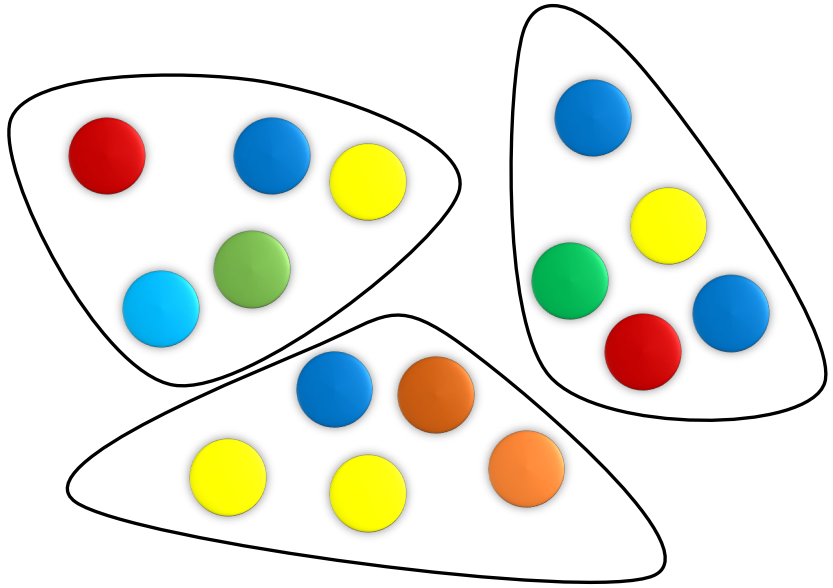


Let's check.

23 ÷ 5 = 4 r 3.

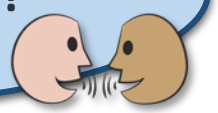
Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

What does 15 ÷ 5 mean?



15 divided into groups of 5.

How many groups? Will there be any left over? Why / why not?



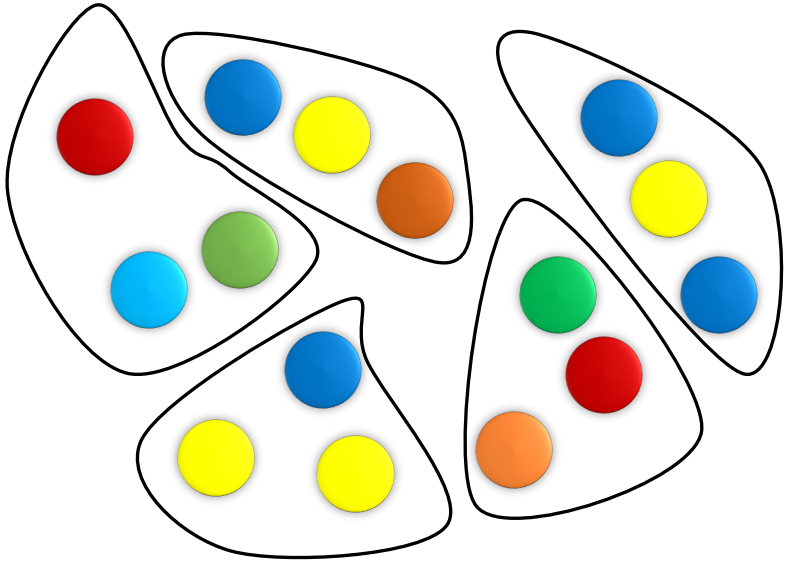
15 is a multiple of 5 so no remainder!

Let's check.

15 ÷ 5 = 3.

Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

What if we divided 15 counters into groups of 3?



Let's check.

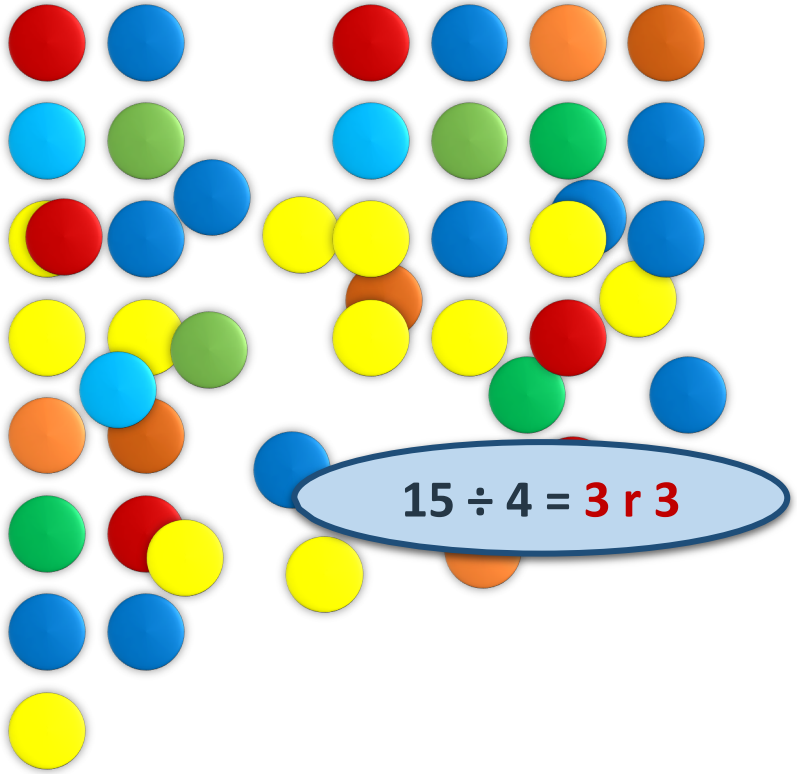
15 is a multiple of 3 so no remainder!

15 ÷ 3 = 5.

Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

What if we divided 15 counters into groups of 2 or 4?

This time let's check by putting the counters into rows.



15 ÷ 4 = 3 r 3

15 ÷ 2 = 7 r 1

15 is not a multiple of 2 or 4 so there is a remainder each time.

Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

We can show groups in a row too, like we see on a bead string...

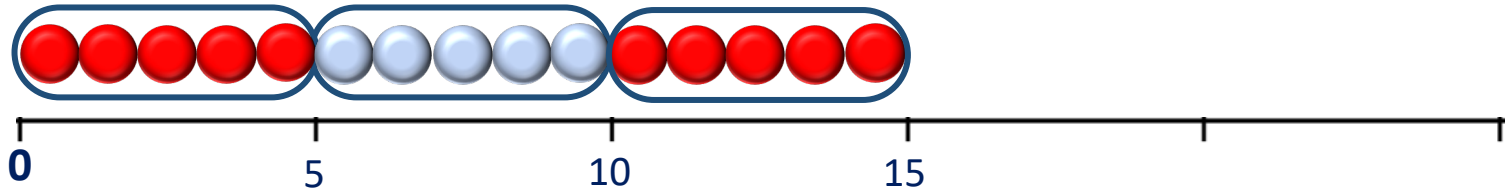
What is 15 ÷ 5?

15 ÷ 5 = 3.

1 group of 5 ...

... 2 groups of 5 ...

... 3 groups of 5.



Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

We can also use a number line for division...

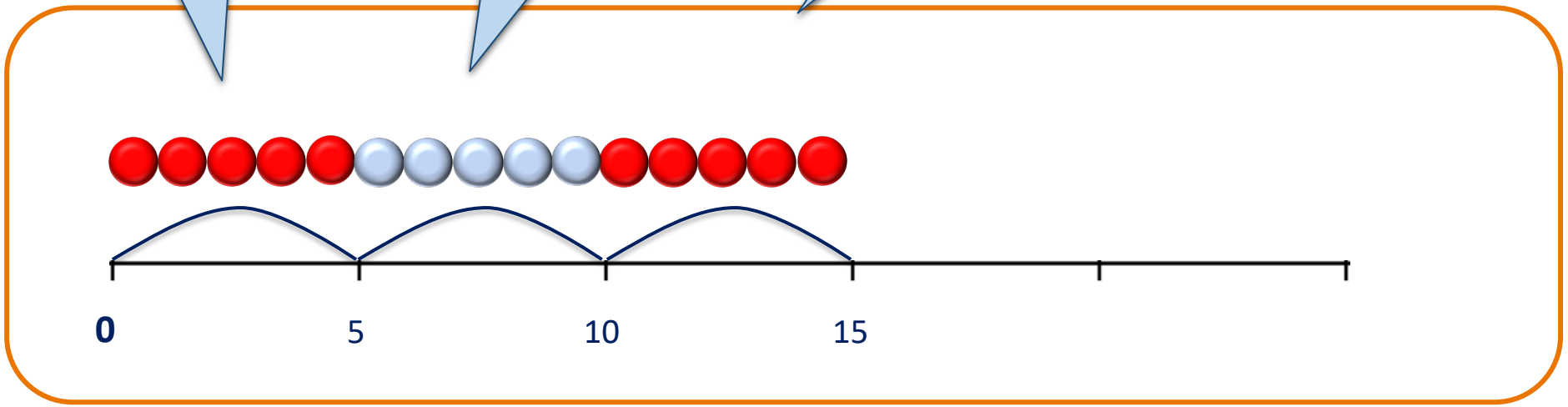
What is 15 ÷ 5?

15 ÷ 5 = 3.

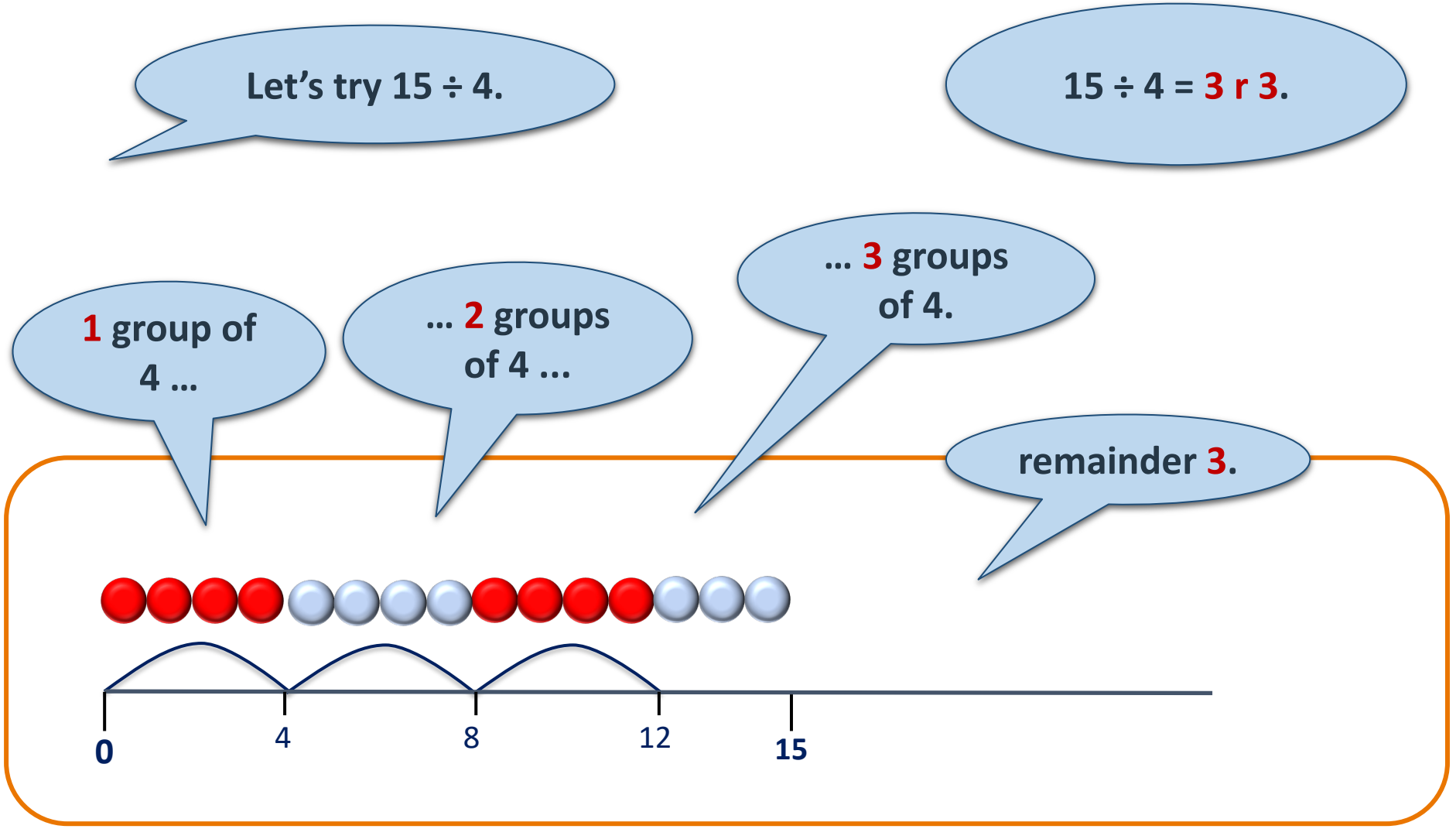
1 group of 5 ...

... 2 groups of 5 ...

... 3 groups of 5.



Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?



Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

Can you predict which of these will have a remainder:

22 ÷ 5 22 ÷ 2 22 ÷ 3 22 ÷ 10

Draw number lines on your whiteboards or on paper to check.

Don't forget where to put the r for remainder.

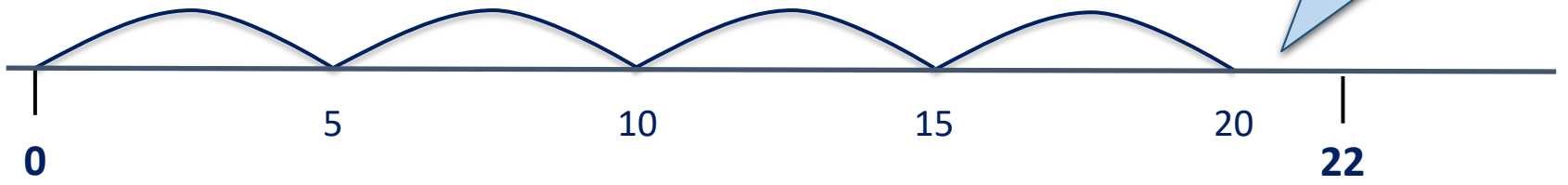
Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

Let's try 22 ÷ 5.

22 ÷ 5 = 4 r 2.

4 groups of 5.

How many from 20 to 22?



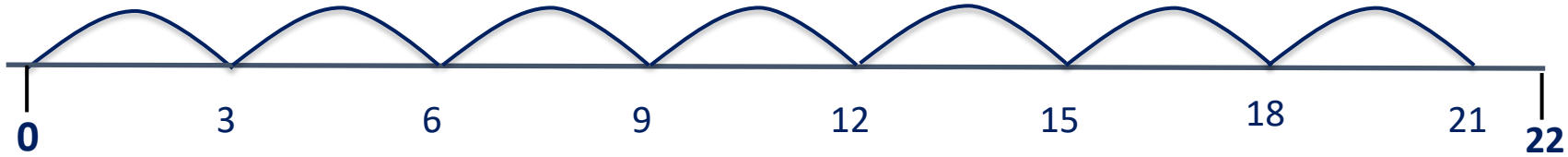
Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

Let's try 22 ÷ 3.

22 ÷ 3 = 7 r 1.

That's seven 3s…

…remainder 1.



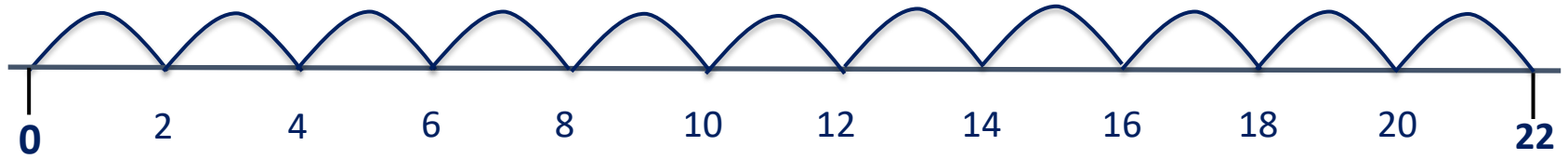
Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

Let's try 22 ÷ 2.

22 ÷ 2 = 11

That's eleven 2s…

.. and no remainder!



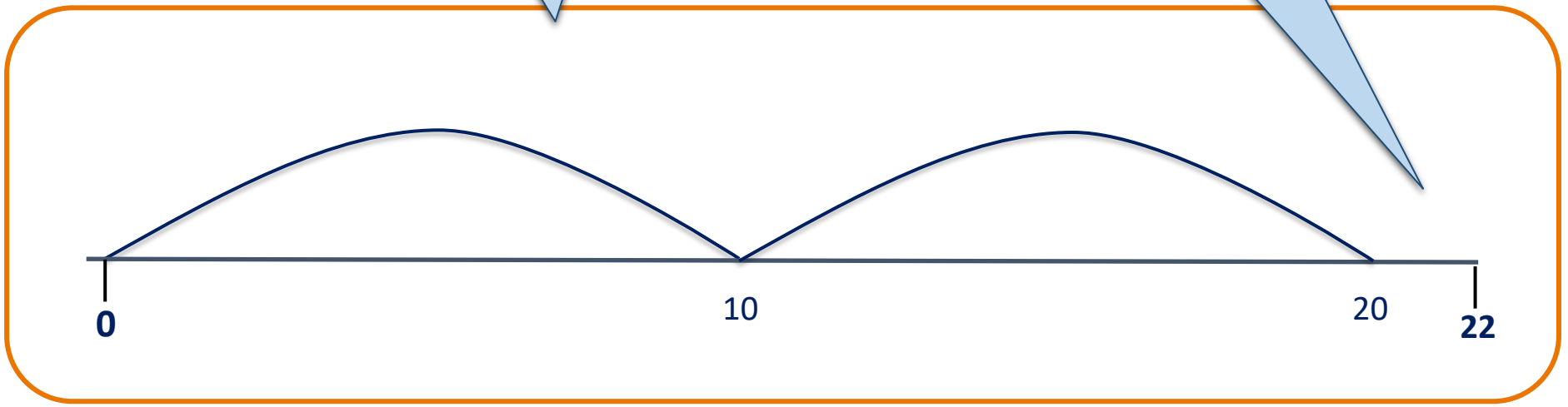
Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

Let's try 22 ÷ 10.

22 ÷ 10 = 2 r 2

That's just two 10s.

...remainder ?



Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

Note:

You can use counters or draw number lines to work these out.

You can use pennies for counters or cut up bits of paper.

Dividing by 5, 3 and 4: remainders

Sheet 1

Easier **Harder**

Set 1	Set 2	Set 3	Set 4	Set 5
11 ÷ 5 =	12 ÷ 5 =	31 ÷ 3 =	31 ÷ 4 =	38 ÷ 4 =
16 ÷ 5 =	18 ÷ 5 =	17 ÷ 3 =	19 ÷ 4 =	35 ÷ 3 =
21 ÷ 5 =	24 ÷ 5 =	29 ÷ 3 =	27 ÷ 4 =	29 ÷ 5 =
36 ÷ 5 =	37 ÷ 5 =	35 ÷ 3 =	33 ÷ 4 =	35 ÷ 4 =
26 ÷ 5 =	23 ÷ 5 =	23 ÷ 3 =	41 ÷ 4 =	43 ÷ 5 =
31 ÷ 5 =	39 ÷ 5 =	19 ÷ 3 =	50 ÷ 4 =	22 ÷ 3 =

Challenge

Challenge

Sally packs 5 muffins in each tray. Suggest batches of muffins between 30 and 40 that would leave some muffins left over. What if Sally packed 4 muffins in a tray. Which batches between 30 and 40 would leave some left over now?

Objective: Can I divide by 2, 3, 4, 5 and 10, including giving remainders?

Dividing by 2, 3, 4, 5, and 10: remainders

Sheet 2

Section A - Find the answers, don't forget the remainders!

Easier →

11 ÷ 2 =	17 ÷ 2 =	13 ÷ 2 =	19 ÷ 2 =
11 ÷ 5 =	17 ÷ 5 =	13 ÷ 5 =	19 ÷ 5 =
11 ÷ 10 =	17 ÷ 10 =	13 ÷ 10 =	19 ÷ 10 =

Section B - How many of these don't have remainders? Now work out the answers to check if you are right.

Harder →

12 ÷ 3 =	16 ÷ 3 =	15 ÷ 3 =	20 ÷ 3 =	14 ÷ 3 =
12 ÷ 4 =	16 ÷ 4 =	15 ÷ 4 =	20 ÷ 4 =	14 ÷ 4 =
12 ÷ 5 =	16 ÷ 5 =	15 ÷ 5 =	20 ÷ 5 =	14 ÷ 5 =

Challenge

Challenge

Casey has 8 rabbits and 84 carrots. All rabbits need the same number of carrots - how many possible options of carrots can each rabbit have? Make up some word problems that result in remainders to challenge your friends.

How did you do?

Don’t forget to post your work on Class Dojo!