

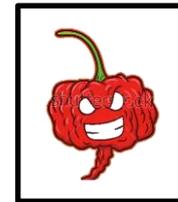
RECALL

$$\frac{5}{20}$$

Can you think of as many other fractions which are equivalent to this fraction?
How did you find them?

Explain the difference between:

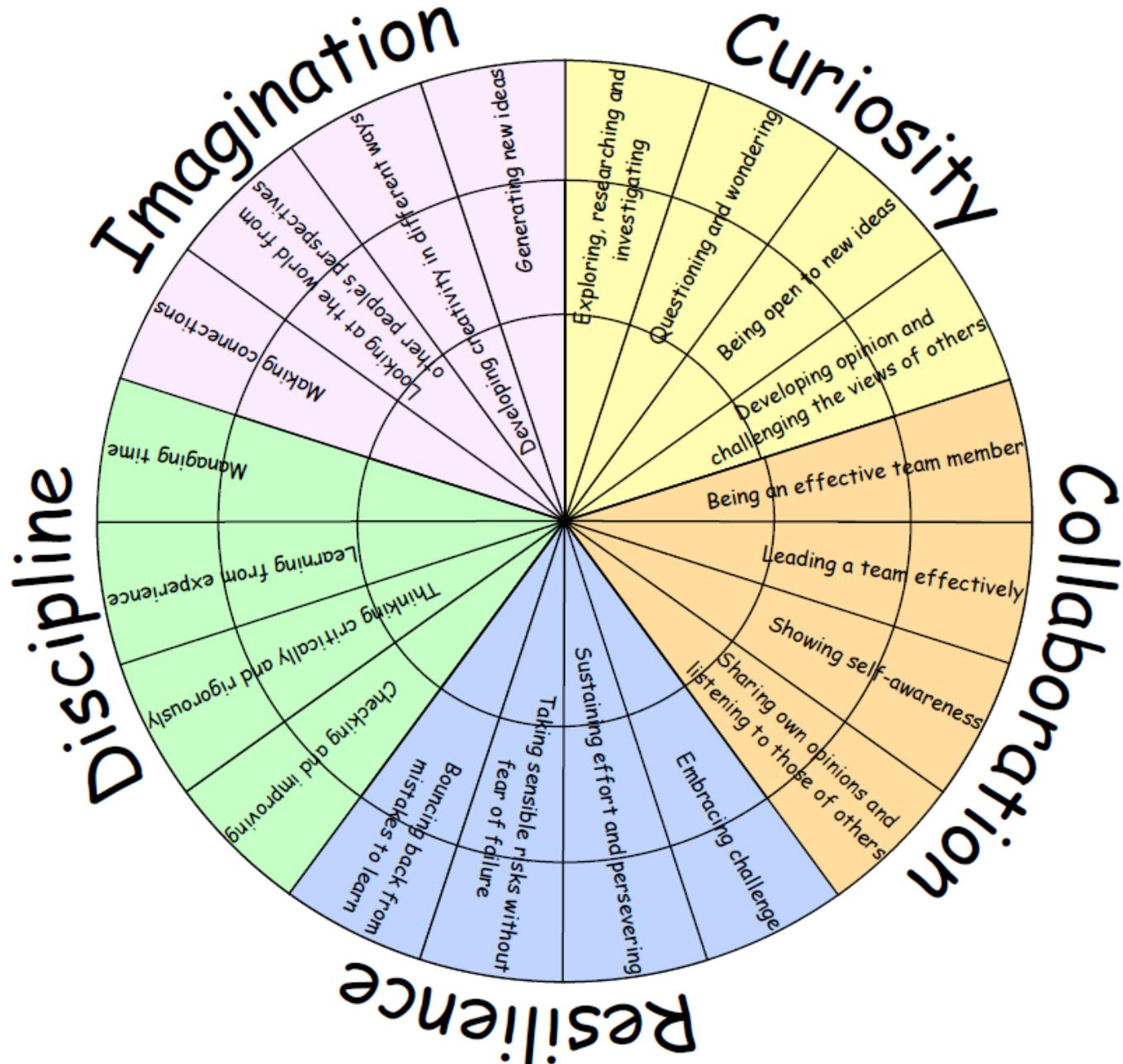
- a) equivalent fraction
- b) simplified fraction



I CAN IDENTIFY THAT A
PROBLEM CAN BE WRITTEN AS
A RATIO

Percentage and Ratio (15v)

LEARNING HABITS?



GUIDED PRACTICE

We need to sort ourselves into equal groups for the walk.

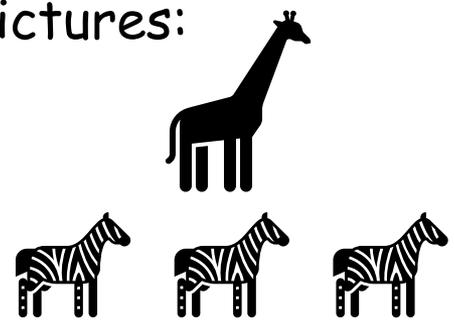
Mrs Dean



INTELLIGENT PRACTICE

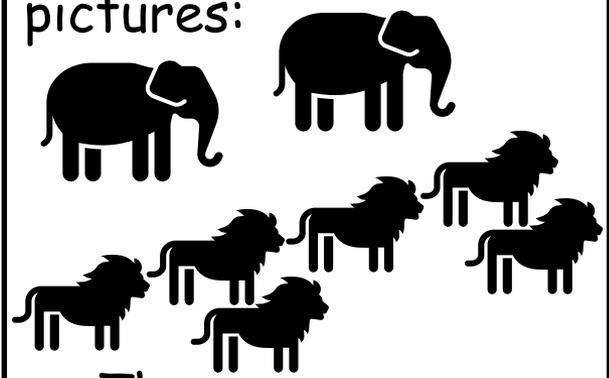


Complete the sentences from the pictures:



There is ... giraffe.
There are ... zebras.
For every ... giraffe, there are... zebras.

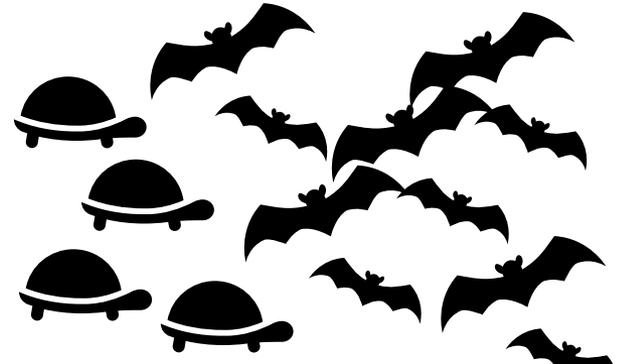
Complete the sentences from the pictures:



- There are ... elephants.
- There are ... lions.
- For every ... elephants, there are ... lions.

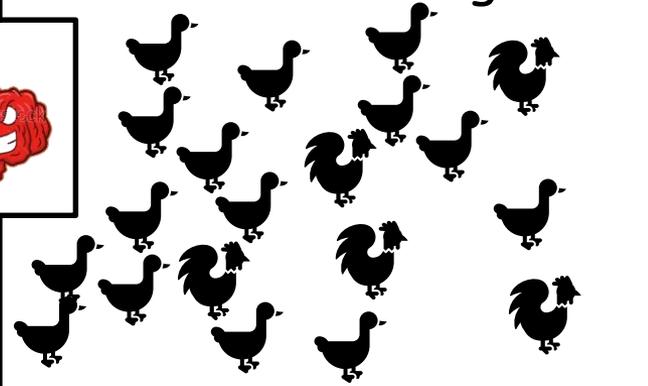
This can be simplified to:
For every ... elephant, there are ... lions.

Write a ratio sentence about the following:

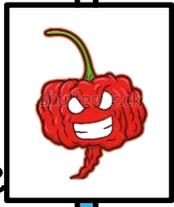


Can you simplify this?

Write a ratio sentence about the following:



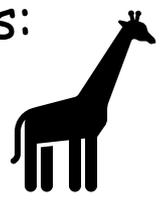
Can you simplify this?



INTELLIGENT PRACTICE



Complete the sentences from the pictures:

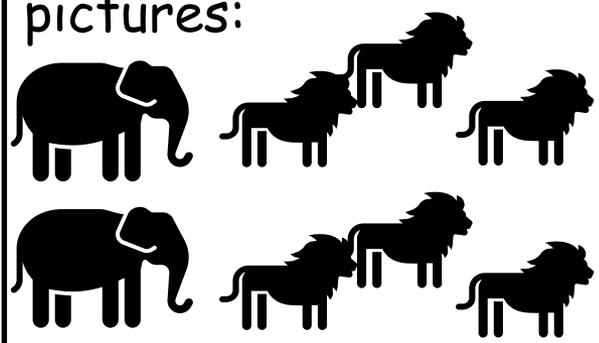


There is **1** giraffe.

There are **3** zebras.

For every **1** giraffe, there are **3** zebras.

Complete the sentences from the pictures:



- There are **2** elephants.
- There are **6** lions.
- For every **2** elephants, there are **6** lions.

This can be simplified to:

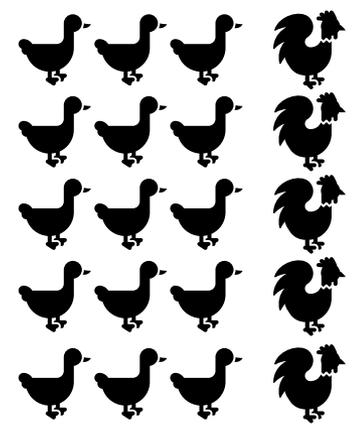
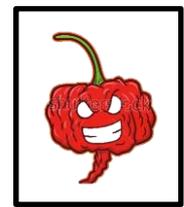
For every **1** elephant, there are **3** lions.

For every 4 tortoises, there are 10 bats.



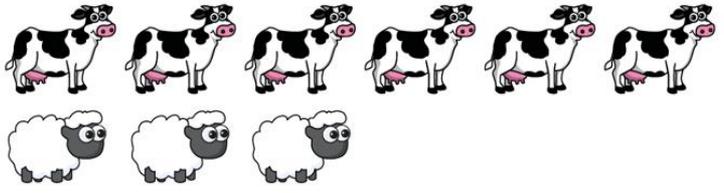
2 tortoises for 5 bats.

15 ducks for every 5 cockerels
3 ducks for every 1 cockerel.



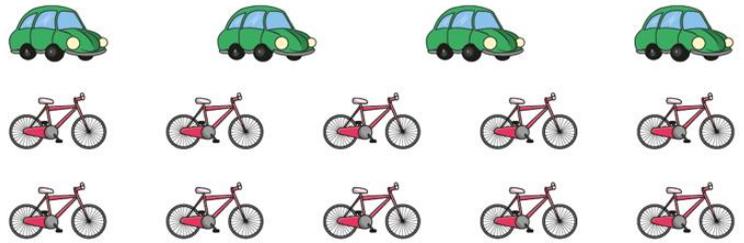
DIVE DEEPER 1

1) Complete the sentences:



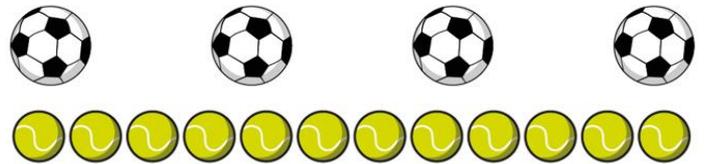
- a) For every 3 sheep, there are ... cows.
- b) For every 1 sheep, there are ... cows.
- c) For every 2 cows, there is ... sheep.

3) For every 2 cars, there are 5 bicycles.



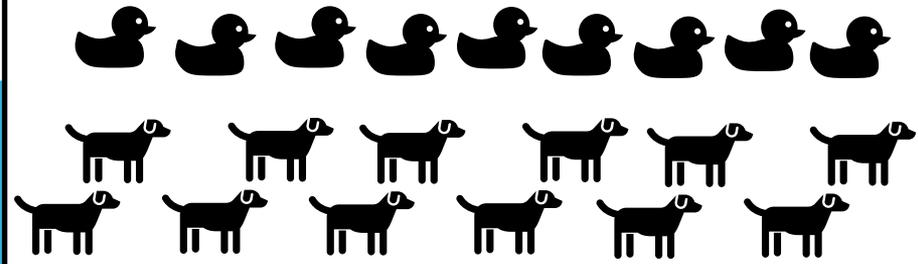
Circle groups to show this statement.

2) Complete the sentences:



- a) For every 4 footballs, there are ... tennis balls.
- b) For every 2 footballs, there are ... tennis balls.
- c) For every 1 football, there are ... tennis balls.

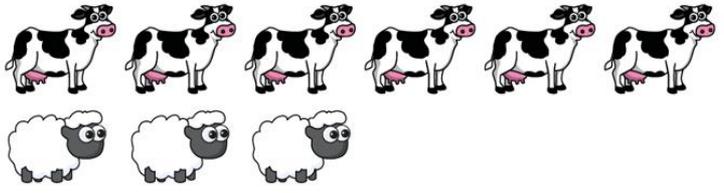
4) For every 3 ducks, there are 4 dogs.



Circle groups to show this statement.

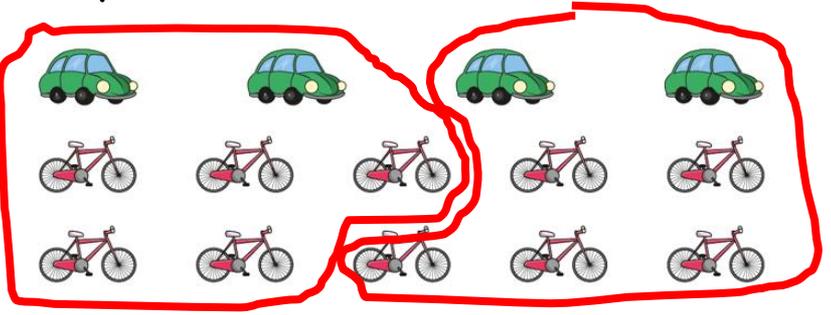
DIVE DEEPER 1 - ANSWERS

1) Complete the sentences:



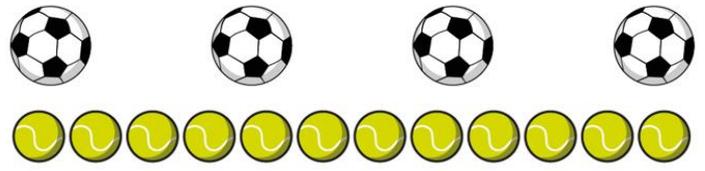
- a) For every 3 sheep, there are 6 cows.
- b) For every 1 sheep, there are 2 cows.
- c) For every 2 cows, there is 1 sheep.

3) For every 2 cars, there are 5 bicycles.



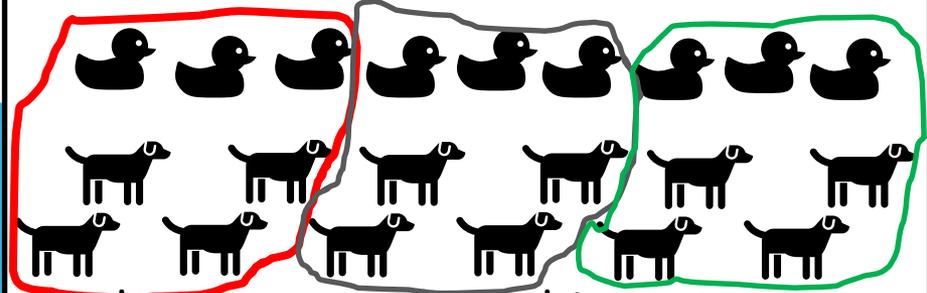
Circle groups to show this statement.

2) Complete the sentences:



- a) For every 4 footballs, there are 12 tennis balls.
- b) For every 2 footballs, there are 6 tennis balls.
- c) For every 1 football, there are 3 tennis balls.

4) For every 3 ducks, there are 4 dogs.



Circle groups to show this statement.

DIVE DEEPER 2

5) Here are some shapes:



Complete the sentences:

- For every 6 squares, there are ... circles.
- For every 6 squares, there are ... triangles.
- For every 3 circles, there are ... triangles.

5) Make a line of counters so that it has 3 red counters for every 1 green counter.
Draw it in your book.

Compare your drawing with a partner.

What is the same about your drawings?

What is different about your drawings?

6) There are 2 pencils for every 3 rulers.
Draw a picture to represent this.

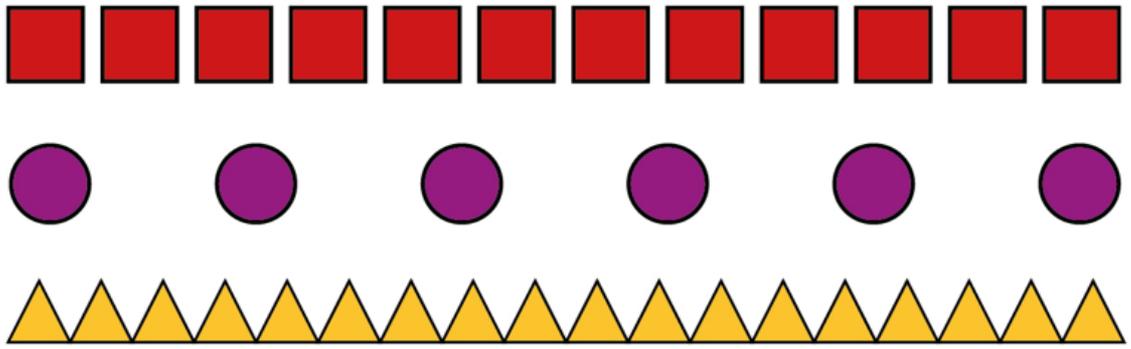
7) In a school, for every 2 girls, there is 1 boy.

a) Draw a picture to represent this.

b) In a class, there are 10 girls. Draw a picture to show how many boys there must be in the class.

DIVE DEEPER 2 - ANSWERS

5) Here are some shapes:



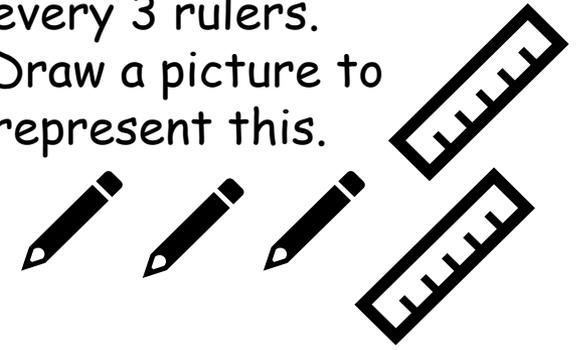
Complete the sentences:

- a) For every 6 squares, there are 3 circles.
- b) For every 6 squares, there are 9 triangles.
- c) For every 3 circles, there are 9 triangles.

5) Make a line of counters so that it as 3 red counters for every 1 green counter.
Draw it in your book.

Compare your drawing with a partners.
What is the same about your drawings? **Ratio of 3:1**
What is different about your drawings? **You might have 6 reds and 2 greens and your partner may have 3 reds and 1 green. Various other answers.**

6) There are 2 pencils for every 3 rulers.
Draw a picture to represent this.



7) In a school, for every 2 girls, there is 1 boy.

a) Draw a picture to represent this.

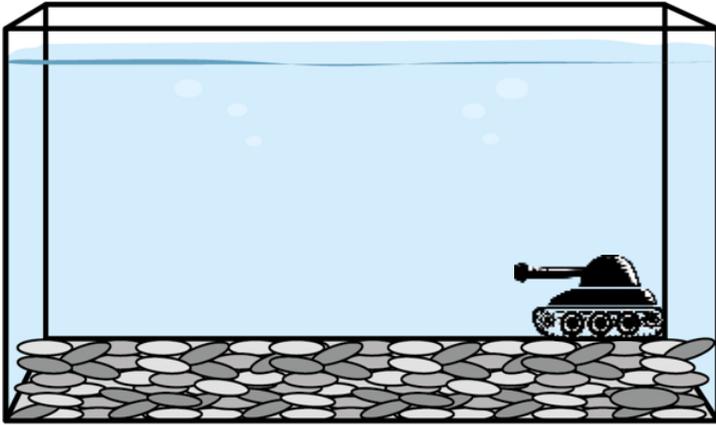


b) In a class, there are 10 girls. **10 girls: 5 boys**

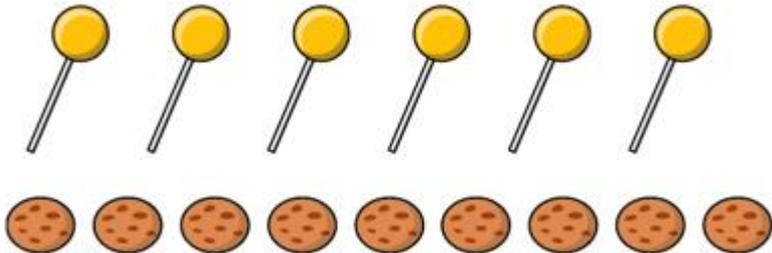
Girls	2	2	2	2	2
Boys	1	1	1	1	1

DIVE DEEPER 3

8) Filip has some fish.
For every 3 red fish, he has 1 goldfish.
Tommy counts at least 20 fish in the tank.
Draw the fish in the tank.



9)



Annie says that there are 3 lollipops for every 2 cookies. Do you agree?

10) I mixed two glasses of homemade lemonade.

Glass 1: 200ml of lemon juice and 300ml of water.

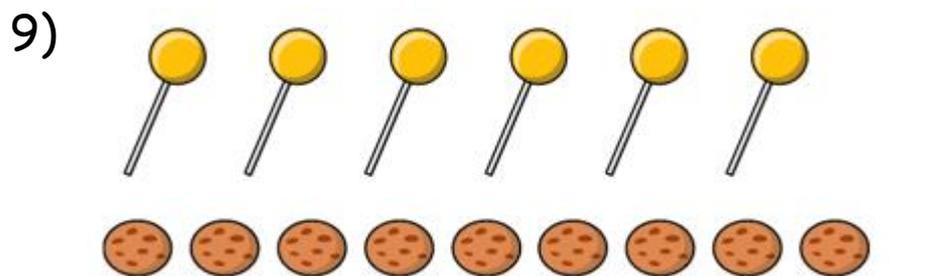
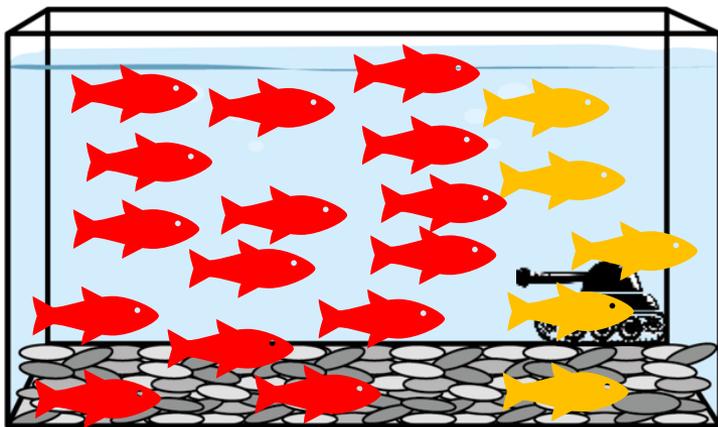
Glass 2: 100ml of lemon juice and 200ml of water.

Which glass will have the stronger lemonade mixture?

How do you know?

DIVE DEEPER 3 - ANSWERS

8) Filip has some fish.
For every 3 red fish, he has 1 goldfish.
Tommy counts at least 20 fish in the tank.
Draw the fish in the tank.



Annie says that there are 3 lollipops for every 2 cookies. Do you agree? **No, there are 2 lollipops for every 3 cookies.**

10) I mixed two glasses of homemade lemonade.

Glass 1: 200ml of lemon juice and 300ml of water.

Glass 2: 100ml of lemon juice and 200ml of water.

Which glass will have the stronger lemonade mixture?

Glass 1 will be stronger.

How do you know?

$\frac{2}{5}$ of Glass 1 is lemon juice.

$\frac{1}{3}$ of Glass 2 is lemon juice.

$\frac{2}{5}$ is greater than $\frac{1}{3}$ \therefore Glass 1 is stronger

SELF-ASSESSMENT

- Some will even begin to understand that ratios can be represented as fractions
 - Some will be able to clearly state simplified ratios and draw representations of them
 - Most will be able to identify and simplify ratios
 - All will be able to identify ratios
- 