

# Week 18

## Tuesday 21st July 2020

### Year 5 Using the Ratio Symbol - Reasoning and Problem Solving

\*As ration is mainly as year 6 objective, you only have **D** and **E** to complete.

## Introducing the Ratio Symbol

## Introducing the Ratio Symbol

1a. This machine turns sentences into ratios. Could this ratio be correct?

There are four times as many pears as oranges.



**Convince me.**



1b. This machine turns sentences into ratios. Could this ratio be correct?

For every 3 boys, there are 2 girls.



**Convince me.**



2a. Each child's statement is correct.



Rishon

The ratio is 4:1.



Riva

The ratio is 1:4.



**Explain how this is possible.**



2b. Each child's statement is correct.



Yussuf

The ratio is 3:5.



Marium

The ratio is 5:3.



**Explain how this is possible.**



3a. In a purse of 9 coins, some are silver and the rest are copper. There are more silver coins than copper coins.

**Write down 3 solutions for the possible ratio of silver to copper coins.**

**Draw counters to support your answers.**



3b. In a 10-piece fruit basket, there are only apples and pears. There are more apples than pears.

**Write down 3 solutions for the possible ratio of pears to apples.**

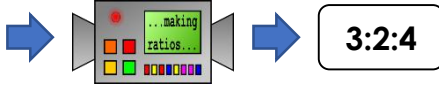
**Draw counters to support your answers.**



## Introducing the Ratio Symbol

4a. This machine turns sentences into ratios. Could this ratio be correct?

There are twice as many pears as oranges. For every 2 oranges, there are 3 apples.



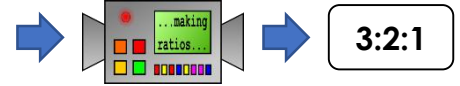
**Convince me.**



## Introducing the Ratio Symbol

4b. This machine turns sentences into ratios. Could this ratio be correct?

There are three times as many pencils as rulers. For every 3 pencils, there are 2 rubbers.



**Convince me.**



5a. Each child's statement is correct.



Cole

The ratio is 4:3.

The fraction is  $\frac{4}{13}$ .



Elise



**Explain how this is possible.**



5b. Each child's statement is correct.



Eli

The ratio is 5:1.

The fraction is  $\frac{1}{8}$ .



Verity



**Explain how this is possible.**



6a. In a bag of 10 sweets,  $\frac{3}{5}$  are red. The rest are green or blue.

Write down 3 solutions for the possible ratio of red to blue to green sweets.

Draw counters to support your answers.



6b. In a class of 30 children,  $\frac{2}{3}$  are having sandwiches for lunch. The rest are having cook's choice or jacket potato.

Write down 3 solutions for the possible ratio of jacket potato to sandwiches to cook's choice.

Draw counters to support your answer.

