Week 18

Wednesday 22nd July 2020

Year 6 Calculating Ratio - Varied Fluency

Watch the demonstrations on how to calculate ratios depending on whether you're simplifying them or increasing them:

https://www.bbc.co.uk/bitesize/topics/zsq7hyc/articles/z8kfnbk

https://www.youtube.com/watch?v=0YtmGqcAg0&feature=youtu.be

https://vimeo.com/432268547

Calculating Ratio

Calculating Ratio

1a. Use the image below to complete the ratio statements.	1b. Use the image below to complete the ratio statements.
For every oranges, there are pears.	For every rubbers, there is pencil sharpener.
If there are 8 oranges, how many pears will there be?	If there are 4 rubbers, how many pencil sharpeners will there be?
EVF 6 VF	6 VF
2a. There are 40 pencils and pens in a box. For every 1 pencil, there are 3 pens. Use the bar model to help you calculate:	2b. There are 60 balls in a bag. For every 2 footballs, there are 4 tennis balls. Use the bar model to help you calculate:
How many pencils altogether? How many pens altogether?	How many footballs altogether? How many tennis balls altogether?
6 VF	6 VF
3a. What is the ratio of white stripes to	3b. What is the ratio of lions to tigers?
black stripes?	
Use the ratio to calculate how many stripes there will be altogether if there are 6 white stripes.	Use the ratio to calculate how many animals there will be altogether if there are 30 lions.
6 white stripes	30 lions
black stripes	tigers
stripes altogether	animals altogether 6 VF

<u>Calculating Ratio</u>

Calculating Ratio

4a. Use the image below to complete the ratio statements.	4b. Use the image below to complete the ratio statements.
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For every apples, there are bananas.	For every pairs of scissors, there are glue pots.
If there are 12 apples, how many bananas will there be?	If there are 18 pairs of scissors, how many glue pots will there be?
6 VF	6 VF
5a. There are 28 pieces of fruit on a plate. For every 4 strawberries, there are 3 raspberries. Use the bar model to help you calculate:	5b. There are 30 vehicles in a traffic jam. For every 3 cars, there are 2 vans. Use the bar model to help you calculate:
How many strawberries altogether? How many raspberries altogether?	How many cars altogether? How many vans altogether?
6 VF	6 VF
6a. What is the ratio of horses to giraffes?	6b. What is the ratio of golf balls to golf clubs?
Use the ratio to calculate how many animals there will be altogether if there are 20 horses.	Use the ratio to calculate how many items there will be altogether if there are 24 golf balls.
20 horses	24 golf balls
giraffes	golf clubs
animals altogether 6 VF	items altogether

Calculating Ratio

Calculating Ratio

7a. Use the image below to complete the sentence and simplify the ratio statement.	7b. Use the image below to complete the sentence and simplify the ratio statement.
For every strawberry buns, there are cherry buns and raspberry buns.	For every paint pallets, there are paintbrushes and water pots.
If there are 12 strawberry buns, how many cherry and raspberry buns will there be?	If there are 16 paint pallets, how many paintbrushes and water pots will there be?
6 VF	6 VF
8a. There are 24 goals scored during a match. For every 3 goals scored by the home team, there is 1 goal scored by the away team. Use the bar model to help you calculate:	8b. There are 36 marbles in a bag. For every 2 large marbles, there are 4 small marbles. Use the bar model to help you calculate:
How many home goals altogether? How many away goals altogether?	How many large marbles altogether? How many small marbles altogether?
6 VF	6 VF
9a. What is the simplified ratio of crisps to chocolate to sweets?	9b. What is the simplified ratio of red to white to blue bricks?
There are 4 bags of crisps for every 8 chocolates and 2 sweets.	There are 6 red bricks for every 36 white and 18 blue bricks.
Use the ratio to calculate how many treats there will be altogether if there are 12 bags of crisps.	Use the ratio to calculate how many bricks there will be altogether if there are 18 red bricks.
chocolates	blue bricks
sweets	white bricks
treats altogether 6 VF	bricks altogether