Week 18

Wednesday 22nd July 2020

Year 5 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://vimeo.com/432268547

*As ratio is mainly a year 6 objective, you only have **D** and **E** to complete.

1a. Use the image below to complete the ratio statements.

For every ___ oranges, there are ___ pears.

⬜ : ⬜

If there are 8 oranges, how many pears will there be?

1b. Use the image below to complete the ratio statements.

For every ___ rubbers, there is ___ pencil sharpener.

⬜ : ⬜

If there are 4 rubbers, how many pencil sharpeners will there be?

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:

How many pencils altogether?

How many pens altogether?
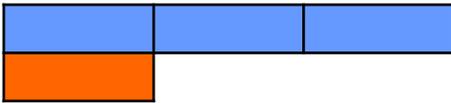
2b. There are 60 balls in a bag. For every 2 footballs, there are 4 tennis balls. Use the bar model to help you calculate:

How many footballs altogether?

How many tennis balls altogether?
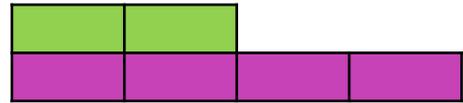
3a. What is the ratio of white stripes to black stripes?

⬜ : ⬜
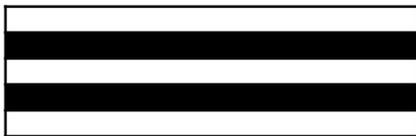
Use the ratio to calculate how many stripes there will be altogether if there are 6 white stripes.

6	white stripes
⬜	black stripes
⬜	stripes altogether

3b. What is the ratio of lions to tigers?

⬜ : ⬜

Use the ratio to calculate how many animals there will be altogether if there are 30 lions.

30	lions
⬜	tigers
⬜	animals altogether

Calculating Ratio

Calculating Ratio

4a. Use the image below to complete the ratio statements.
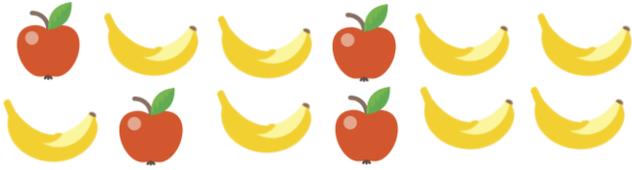
For every ___ apples, there are ___ bananas.

☐ : ☐

If there are 12 apples, how many bananas will there be?

⭐ E

4b. Use the image below to complete the ratio statements.

For every ___ pairs of scissors, there are ___ glue pots.

☐ : ☐

If there are 18 pairs of scissors, how many glue pots will there be?

⭐ E

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:

How many strawberries altogether? ☐

How many raspberries altogether? ☐

⭐ E
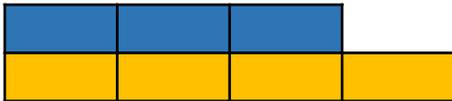
5b. There are 30 vehicles in a traffic jam. For every 3 cars, there are 2 vans. Use the bar model to help you calculate:

How many cars altogether? ☐

How many vans altogether? ☐

⭐ E

6a. What is the ratio of horses to giraffes?

☐ : ☐
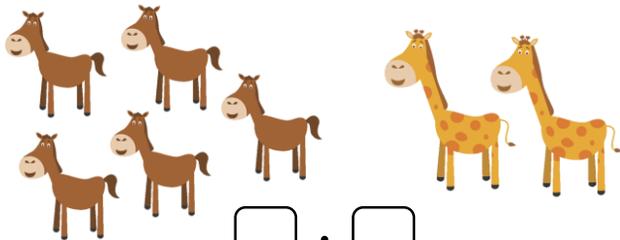
Use the ratio to calculate how many animals there will be altogether if there are 20 horses.

| 20 | horses
☐ giraffes
☐ animals altogether

⭐ E

6b. What is the ratio of golf balls to golf clubs?

☐ : ☐

Use the ratio to calculate how many items there will be altogether if there are 24 golf balls.

| 24 | golf balls
☐ golf clubs
☐ items altogether

⭐ E