Week 17

Friday 17th July 2020

Year 5 Using Ratio and Fractions - Reasoning and Problem Solving

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

Ratio And Fractions

Ratio And Fractions

1a. James is making a keyring using red and green beads.

Each keyring contains 20 beads in total.

Write 3 pairs of fractions to show the possible ratio of red to green beads.

1b. Tara is making a keyring using blue and purple beads.

Each keyring contains 15 beads in total.

Write 3 pairs of fractions to show the possible ratio of blue to purple beads.

2a. Which of the following statements match the image?

A. $\frac{4}{9}$ of the fruit are satsumas.

B. There are nine fruits in total.

C. There are five lemons for every five satsumas.

Explain how you know.

2b. Which of the following statements match the image?

A. There are five items in total.

B. $\frac{2}{6}$ of the items are onions.

C. There are two tomatoes for every four onions.

Explain how you know.

3a. Sam has a bag of 5p and 10p coins.

Sam says:

$\frac{3}{8}$ of the coins are 10p coins.

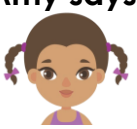
Bella says:

There are five 5p coins for every eight 10p coins.

Who is correct? Explain how you know.

3b. Amy has a bag of 1p and 2p coins.

Amy says:



There are four 2p coins for every five 1p coins.

Bobby says:

$\frac{4}{9}$ of the coins are 1p coins.

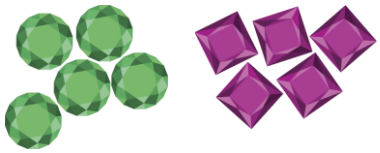
Who is correct? Explain how you know.

Ratio And Fractions

4a. Pippa is making a bracelet using purple and green jewels.

Each bracelet contains 30 jewels in total.

Write 5 pairs of fractions to show the possible ratio of green to purple jewels.



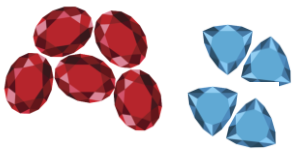
E

Ratio And Fractions

4b. Carol is making a necklace using red and blue jewels.

Each necklace contains 45 jewels in total.

Write 5 pairs of fractions to show the possible ratio of red to blue jewels.



E

5a. Which of the following statements match the image?

A. $\frac{3}{9}$ of the fruit are lemons.

B. There are three satsumas for every four strawberries.

C. There are eleven items in total.

Explain how you know.

E

5b. Which of the following statements match the image?

A. There are nine items in total.

B. $\frac{4}{10}$ of the items are carrots.

C. There is one tomato for every onion.

Explain how you know.

E

6a. Millie has a bag of 5p and 10p coins.

$\frac{2}{9}$ of the coins are worth 10p.

Millie says:

There are seven 5p coins for every two 10p coins.

Jaxon says:

There are 9 coins in total.

Who is correct? Explain how you know.

E

6b. Stan has a bag of 1p and 2p coins.

$\frac{9}{15}$ of the coins are worth 2p.

Susie says:

There are 24 coins in total.

Stan says:

There are six 1p coins for every nine 2p coins.

Who is correct? Explain how you know.

E