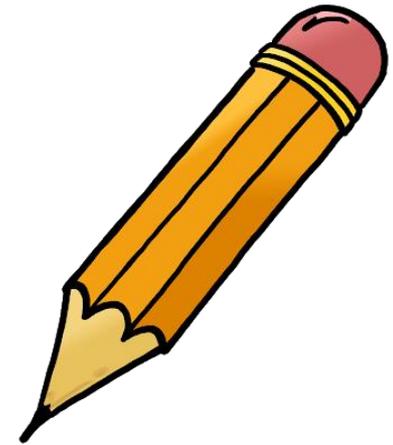


Year 6

Home learning

Maths

Day 6. Ratio (part 2)



Maths: Active

Perform high knees and punches while you recite a times table you find challenging, for example:

1 x 8 = , 2 x 8 = up to 12 x 8 =

Can you do it backwards?

12 x 8 =, 11 x 8 = ...



Maths: Ratio revision

Ratio:

Is an unequal sharing of an amount and compares the size of different parts (or portions) with each other.

- E.g. Harry and Dele share their earnings in a ratio of 3:2

Proportion:

Compares the size of the part (or portion) to the size of the whole – like a fraction.

- E.g. Harry received a proportion of £12 out of £20 and the other proportion of the money Dele received, which is £8 out of £20.

Maths: Ratio revision



Explain

Write

A packet of Haribo contains 10 sweets.

What different ways could you **unfairly** share the sweets among...



4 people



3 people



2 people



Maths: Ratio revision

Varied Fluency



1. Complete the sentences.



For every two blue flowers there are ____ pink flowers.
For every blue flower there are ____ pink flowers.

2. Use cubes to help you complete the sentences.



For every ____ , there are ____ 

For every 8 , there are ____ 

For every 1 , there are ____ 

3. How many "For every..." sentences can you write to describe these counters?



Maths: Ratio revision answers

Varied Fluency

1. Complete the sentences.



For every two blue flowers there are 4 pink flowers.
For every blue flower there are 2 pink flowers.

2. Use cubes to help you complete the sentences.



For every 16 yellow cubes, there are 8 blue cubes.

For every 8 yellow cubes, there are 4 blue cubes.

For every 1 blue cube, there are 2 yellow cubes.

3. How many "For every..." sentences can you write to describe these counters?



Did you write...

For every 3 red counters there are 5 blue counters and 15 yellow counters?

Maths: Ratio revision

Ratio and Fractions

Reasoning and Problem Solving

Explain

Write



4. Ron plants flowers in a flower bed.
For every 2 red roses he plants 5 white roses.

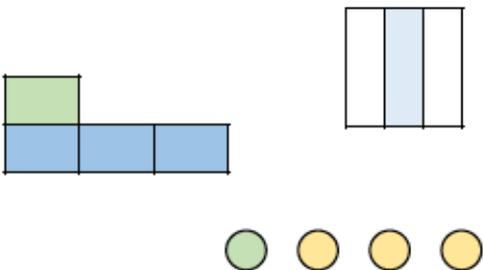
He says,



$\frac{2}{5}$ of the roses are red.

Is Ron correct?

5. Which is the odd one out?
Explain your answer.



6. There are some red and green cubes in a bag. $\frac{2}{5}$ of the cubes are red.

True or False?

- For every 2 red cubes there are 5 green cubes.
- For every 2 red cubes there are 3 green cubes.
- For every 3 green cubes there are 2 red cubes.
- For every 3 green cubes there are 5 red cubes.

Explain your answers.

Maths: Ratio revision answers

Ratio and Fractions

Reasoning and Problem Solving

Explain

Write



4. Ron plants flowers in a flower bed. For every 2 red roses he plants 5 white roses.

He says,

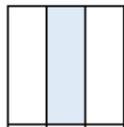
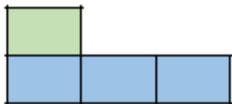


$\frac{2}{5}$ of the roses are red.

Is Ron correct?

Ron is incorrect because $\frac{2}{7}$ of the roses are red. He has mistaken a part with the whole.

5. Which is the odd one out? Explain your answer.



 is the odd one out because one part out of three is a different colour. The others are one part out of four.

6. There are some red and green cubes in a bag. $\frac{2}{5}$ of the cubes are red.

True or False?

- For every 2 red cubes there are 5 green cubes.
- For every 2 red cubes there are 3 green cubes.
- For every 3 green cubes there are 2 red cubes.
- For every 3 green cubes there are 5 red cubes.

Explain your answers.

False

True

True

False