

Max's Market Stall: Ratio and Proportion

Learning objective: To solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.

Help Max the monkey organise his market stall. Use your knowledge of ratios to ensure he has the correct amount of fruit for his customers. Show your working clearly.

Max is setting up a fruit stall at the school fair. He knows that for every 2 red apples he sells, he must include 3 green pears in the basket to keep the display balanced. This is a ratio of 2:3. Max wants to make sure he has enough stock for all his customers throughout the day.

Word bank: ratio · proportion · quantity · equivalent · multiply · divide · share

1. If Max wants to make a basket with 4 red apples, how many green pears does he need to keep the ratio of 2:3? (2 marks)

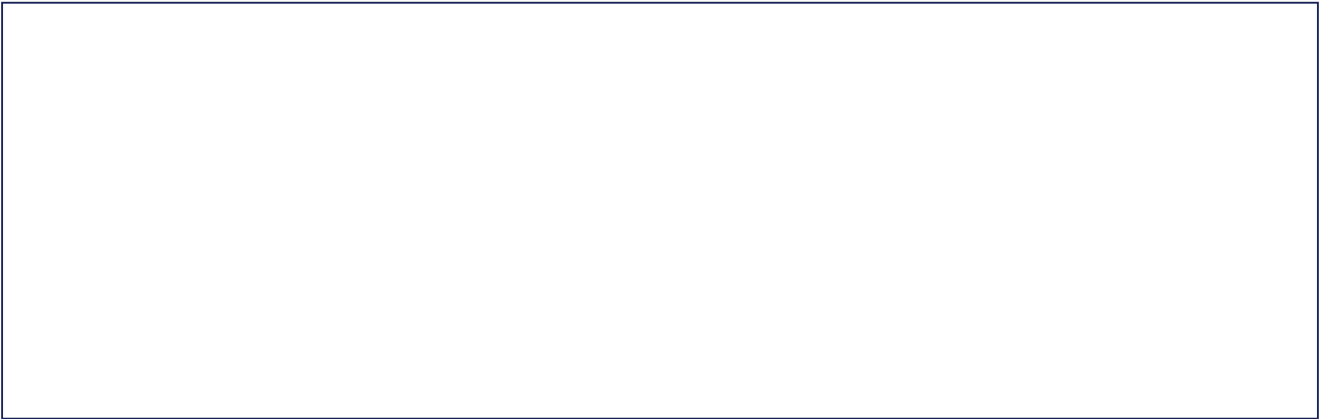
2. Max has 15 green pears. If he uses the 2:3 ratio, how many red apples will he need to match them? (2 marks)

3. Max sells a 'Fruit Mix' bag that contains 1 banana and 4 strawberries. If a customer buys 3 bags, how many strawberries will they have in total? (2 marks)

4. Max charges £2 for every 5 oranges. How much would a customer pay if they wanted to buy 15 oranges? (2 marks)

5. If Max has 20 pieces of fruit in total and the ratio of apples to oranges is 1:3, how many apples does he have? (3 marks)

Draw: Draw a basket containing a ratio of 3 yellow lemons to 2 purple plums. Draw enough fruit to show the ratio clearly.



Extension challenge: Max has a bowl of fruit where the ratio of grapes to cherries is 4:2. If there are 30 pieces of fruit in the bowl altogether, can you calculate how many of each fruit there are? Explain your method.