

Max's Market Stall: A Ratio Challenge

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 fruit stall by using ratios to work out the correct amounts. Show your working out clearly.

Max the monkey has opened a fruit stall at the local village fair. He likes to arrange his fruit in special patterns. He knows that for every 2 red apples he displays, he must put out 3 green pears to keep the display looking balanced. Max also sells bunches of bananas; he knows that for every 1 bunch of bananas costing £2, he needs to provide 4 small stickers for his customers.

Word bank: ratio · proportion · multiple · quantity · equivalent

1. Max has 6 red apples. Using his ratio of 2 red apples to 3 green pears, how many green pears does he need to add to his stall? (2 marks)

2. If Max wants to display 15 green pears, how many red apples will he need to match his ratio? (2 marks)

3. Max sells 5 bunches of bananas. How much money will he make in total if each bunch costs £2? (2 marks)

4. Using the answer from the previous question, how many stickers does Max need to give away if he gives 4 stickers per bunch of bananas? (2 marks)

5. Max decides to change his apple display. For every 1 red apple, he now uses 5 grapes. If he has 4 red apples, how many grapes does he need? (2 marks)

Draw: Draw a picture of Max's fruit stall showing 4 red apples and their corresponding 6 green pears.



Extension challenge: Max wants to sell a 'Fruit Mix Bag'. The bag must contain 2 oranges for every 5 strawberries. If Max puts 10 oranges in a large bag, how many strawberries will he need? Explain how you found your answer.