

Max the Monkey's Market Maths

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.

Read the story about Max the Monkey at the local market. Use your knowledge of ratios and multiplication to help him solve his shopping puzzles. Remember to show your working out!

Max the Monkey is helping his friends prepare for a picnic. At the market, he notices that for every 2 red apples he buys, he must buy 3 green pears to keep his fruit bowl perfectly balanced. Max also knows that for every 4 bananas he picks, he gets 1 bunch of grapes for free. Max is very busy calculating how many pieces of fruit he needs for his big group of animal friends.

Word bank: Ratio · Proportion · Quantity · Multiplication · Division · Equivalent

1. If Max buys 6 red apples, how many green pears must he buy to keep the ratio of 2:3? (2 marks)

2. Max bought 12 bananas. Based on the ratio of 4 bananas to 1 bunch of grapes, how many bunches of grapes did he get? (2 marks)

3. A bag of 5 oranges costs £2. How much would 15 oranges cost? (2 marks)

4. If 3 mangoes cost £6, how much would 1 mango cost? Use this to find the price of 7 mangoes. (3 marks)

5. Max has £20. If 4 pineapples cost £8, how many pineapples can he buy in total? (2 marks)

Draw: Draw a picture of Max's fruit basket showing the ratio of 2 red apples for every 3 green pears.



Extension challenge: Max decides to make a fruit salad. The recipe says for every 5 strawberries, he needs 2 blueberries. If Max uses 30 strawberries, how many blueberries does he need? If he has 10 blueberries, has he used too many or too few? Explain your reasoning.