

Max's Market Stall: Exploring Ratios

Learning objective: To understand ratio as a comparison of quantities and solve simple problems involving grouping and scaling.

Read the story about Max the monkey and his fruit stall. Use your knowledge of times tables and grouping to help him solve his maths puzzles. Remember to show your working out for each question.

Max the monkey has opened a fruit stall in the jungle market. He likes to arrange his fruit in perfect patterns. For every 2 shiny red apples he puts in a basket, he adds 3 yellow bananas. Max says, 'If I have a ratio of 2 apples to 3 bananas, I can make sure every basket is exactly the same!' Today, Max has 10 apples. He wants to know how many bananas he needs to keep his pattern perfect.

Word bank: ratio · proportion · quantity · share · part · total

1. If Max's ratio is 2 apples to 3 bananas, and he uses 10 apples in total, how many bananas will he need? Explain how you found your answer. (2 marks)

2. Max decides to make a fruit salad. He uses a ratio of 4 strawberries to 1 slice of melon. If he uses 12 strawberries, how many slices of melon does he need? (1 mark)

3. A pack of 5 oranges costs £2. Max wants to buy 15 oranges for his friends. How much will it cost him in total? (2 marks)

4. Max has 20 pieces of fruit in a basket. The ratio of mangoes to kiwis is 1:3. How many mangoes are in the basket? (2 marks)

5. If Max has 8 pears and 2 pineapples, write the ratio of pears to pineapples in its simplest form. (1 mark)

Draw: Draw one of Max's fruit baskets. Show 2 apples and 3 bananas inside. Then, draw a second basket that follows the same ratio but has double the amount of fruit.



Extension challenge: Max wants to sell a 'Jungle Mix' bag. He puts 2 grapes, 2 blueberries, and 1 blackberry in each bag. If Max wants to make 10 bags, how many of each fruit does he need in total? Create a price list where the total cost of one bag is £1.50.