

# Max's Magnificent Market Maths

*Learning objective: To understand and apply the concepts of ratio and proportion in real-life contexts.*

Read the story about Max the monkey and his fruit stall. Use your knowledge of ratios to help him serve his customers. Remember to show your working out clearly.

Max the monkey has opened a fruit stall in the forest. He loves to keep his displays neat using ratios. Today, Max is making 'Forest Fruit Cups'. Each cup must have a strict ratio of 2 strawberries to 3 blueberries. If Max makes 5 cups, he uses 10 strawberries and 15 blueberries. Max also sells banana bunches. For every 4 yellow bananas, he includes 1 green banana that is still ripening.

*Word bank: ratio · proportion · part · whole · scale · quantity · equivalent*

**1. If Max wants to make 2 fruit cups, how many strawberries and how many blueberries will he need in total? (2 marks)**

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**2. Max has 12 yellow bananas. Based on his ratio of 4 yellow to 1 green, how many green bananas does he need to add? (2 marks)**

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**3. A customer buys a bag of fruit containing 20 pieces. If the ratio of apples to oranges is 1:4, how many apples are in the bag? (2 marks)**

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**4. Max sells a bowl of mixed nuts. The ratio of walnuts to almonds is 3:2. If there are 10 almonds, how many walnuts are there? (2 marks)**

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**5. Explain in your own words why a ratio is different from a normal count. Use the example of the fruit cups to support your answer. (2 marks)**

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**Draw:** Draw a display of Max's banana bunches showing the 4:1 ratio (4 yellow bananas for every 1 green banana).



*Extension challenge: Max decides to change his fruit cup recipe to a ratio of 3 strawberries, 2 blueberries, and 1 grape. If he uses 9 strawberries, how many blueberries and grapes does he need? Write your answer as a new ratio for the whole fruit cup.*