

# Max's Market Stall: A Ratio and Proportion 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.*

Read the story about Max the monkey's fruit stall. Use your knowledge of ratios to help him organise his stock and calculate prices. Show your working out clearly.

Max the monkey is running a fruit stall at the forest market. He likes to keep his stock in perfect patterns. For every 2 red apples Max puts in a basket, he adds 3 green pears. Max uses this 2:3 ratio for all his baskets. He also sells bunches of bananas. He knows that 4 bunches of bananas cost £6. Max needs your help to make sure his stall is ready for the busy day ahead.

*Word bank: ratio · proportion · quantity · scale · multiply · divide · equivalent*

**1. If Max wants to fill a larger basket using the same 2:3 ratio of red apples to green pears, how many green pears will he need if he uses 6 red apples? (2 marks)**

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**2. Max has 15 green pears in total. Using his 2:3 ratio, how many red apples does he need to complete his baskets? (2 marks)**

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**3. Max sells 4 bunches of bananas for £6. How much would it cost a customer to buy 8 bunches of bananas? (2 marks)**

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**4. If 4 bunches of bananas cost £6, how much would 2 bunches of bananas cost? (2 marks)**

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**5. Explain in your own words how you found the cost of the 8 bunches of bananas. (2 marks)**

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**Draw:** Draw a basket containing 4 red apples and 6 green pears to show that the 2:3 ratio is maintained.



*Extension challenge: Max decides to offer a 'Fruit Mix' deal. For every 3 apples, 2 pears, and 5 bananas, he charges £4. If a customer wants to buy a massive hamper with 12 apples, how many pears and bananas must Max include to keep the same proportion, and what will the total cost be?*