

# Max's Fruit Stall Ratios

*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.*

Max the monkey is helping at the local village market. Help him organise his fruit stall by solving the ratio problems below. Once you have finished your calculations, use the drawing prompt to design your own market display.

Max has a very busy stall. He knows that for every 2 apples he sells, he sells 3 bananas. This means the ratio of apples to bananas is 2:3. If Max sells 6 apples, he must have sold 9 bananas to keep the same proportion. Max also sells bags of mixed fruit. He puts 4 strawberries and 1 blueberry in every small bag. If he wants to make 5 bags, he needs 20 strawberries and 5 blueberries.

*Word bank: ratio · proportion · quantity · equivalent · total*

**1. Max has a ratio of 3 oranges to 5 pears on his display. If he has 9 oranges, how many pears does he have? Show your working out. (2 marks)**

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**2. The ratio of red grapes to green grapes is 4:2. If Max has 12 red grapes, how many green grapes does he have? (2 marks)**

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**3. A fruit salad bowl contains 2 melon chunks for every 1 slice of kiwi. If the bowl has 10 melon chunks, how many slices of kiwi are in the bowl? (2 marks)**

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**4. Max sells a bag of fruit for £2. If the ratio of the cost of one bag to the cost of a large basket is 1:4, how much does a large basket cost? (2 marks)**

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5. If Max needs 3 apples for every 1 orange, how many pieces of fruit does he need in total to make a batch using 12 apples? (2 marks)

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**Draw:** Draw Max the monkey standing at his market stall. Draw a basket with a ratio of 4 red apples to 2 yellow lemons. Colour the fruit carefully to show the 4:2 proportion.



*Extension challenge: Max wants to create a 'Super Mix' bag. The ratio of grapes to strawberries is 3:2. If he uses 15 grapes, how many strawberries does he need? If each grape costs 5p and each strawberry costs 10p, what is the total cost of the fruit in the bag?*