

Max the Monkey's Ratio and Proportion Party

Learning objective: To understand and solve problems involving simple ratios and proportions.

Help Max the Monkey organise his jungle snack party! Read the scenarios carefully and use your knowledge of ratios to work out the quantities needed.

Max the Monkey is hosting a picnic for his friends. He knows that for every 2 bananas, he needs 3 mangoes to make the perfect fruit salad. This is a ratio of 2:3. Max also knows that for a bowl of snacks, the ratio of nuts to berries must always be 4:1. If he has 12 nuts, he needs to work out how many berries to add so the proportion stays exactly the same.

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

1. Max uses a ratio of 2 bananas to 3 mangoes. If Max uses 6 bananas, how many mangoes does he need to keep the ratio the same? (2 marks)

2. In a snack bowl, the ratio of nuts to berries is 4:1. If Max has 12 nuts, how many berries are in the bowl? (2 marks)

3. Ellie the Elephant brings a basket of fruit. The ratio of apples to oranges is 5:2. If there are 10 apples, how many oranges are there? (2 marks)

4. Zara the Zebra makes a pattern of coloured beads. The ratio of blue beads to yellow beads is 3:4. If she uses 12 yellow beads, how many blue beads did she use? (2 marks)

5. If a recipe for juice requires 3 parts water to 1 part lemon squash, how much lemon squash is needed if you use 900ml of water? (2 marks)

Draw: Draw a plate of snacks for Max showing a ratio of 3 grapes to 2 strawberries. Label your drawing to show the total number of pieces of fruit.



Extension challenge: Max has 20 pieces of fruit in total. If the ratio of bananas to mangoes is 1:4, how many of each fruit does he have? Explain your working out.