

Max's Multiplication Mountain

Learning objective: To recall and use multiplication facts for the 3, 6, 9, 7, 11 and 12 times tables.

Max the monkey has been busy climbing the multiplication mountain! Help him reach the peak by solving these maths puzzles. Remember to show your working out if you get stuck.

Max is organising his collection of tropical fruit. He has 8 baskets, and each basket holds 7 mangoes. To find the total, Max writes the calculation $8 \times 7 = 56$. Next, he wants to share 48 bananas equally between 6 monkeys. He knows that 48 divided by 6 is 8, so each monkey gets 8 bananas. Finally, Max finds 12 piles of coconuts with 9 in each pile. He uses his 12 times table knowledge to find that $12 \times 9 = 108$.

Word bank: product · multiple · factors · multiplication · array · equation · calculation

1. Max finds 7 baskets with 6 papayas in each. What is the total number of papayas? Write the multiplication equation. (2 marks)

2. If Max has 36 pineapples and wants to put them into 9 equal piles, how many pineapples will be in each pile? (2 marks)

3. Max spots 11 trees. Each tree has 12 colourful birds sitting in its branches. How many birds are there altogether? (2 marks)

4. True or False: 6×8 is the same as 8×6 ? Explain your answer using what you know about the commutative law. (2 marks)

5. Max has 54 coconuts. He puts them into groups of 6. How many groups does he have? (2 marks)

Draw: Draw an array to show the calculation 4×7 . Use small circles to represent the items in your array.



Extension challenge: Max has 144 items to sort. Can you find three different pairs of factors that multiply together to make 144?