

# Max's Multiplication Mastery

*Learning objective: To recall and use multiplication tables up to 12 x 12 and solve problems involving multiplication.*

Read the word bank to refresh your memory on key terms. Help Max the monkey solve his jungle maths puzzles by showing your working out clearly.

Max the monkey is organising a jungle feast! He has 8 baskets, and each basket holds 12 juicy mangoes. Max wants to know the total number of mangoes. He also has 4 platters, and each platter has 15 slices of pineapple. Max uses his knowledge of multiplication to solve these quickly. He remembers that  $8 \times 12$  is the same as  $12 \times 8$ , and he uses partitioning to break down  $4 \times 15$  into  $(4 \times 10) + (4 \times 5)$ .

*Word bank: Product · Multiple · Factor · Array · Commutative · Times-table · Partitioning · Equation*

**1. Using the information in the passage, calculate how many mangoes Max has in total. Show your working out. (2 marks)**

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**2. Explain why Max says  $8 \times 12$  is the same as  $12 \times 8$ . What is this mathematical property called? (2 marks)**

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**3. Calculate the total number of pineapple slices Max has using the partitioning method shown in the passage. (2 marks)**

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**4. If each mango costs 25p, how much would 4 mangoes cost in total? Give your answer in pounds and pence. (2 marks)**

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**5. Find two factors of 24. Can you find a different pair of factors for the same number? (2 marks)**

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**Draw:** Draw an array of 6 rows and 4 columns of stars to show the calculation  $6 \times 4 = 24$ .



*Extension challenge: Max has 144 coconuts to share equally between 12 monkeys. How many coconuts does each monkey get? If each coconut is sold for £2, how much money would Max make if he sold all 144 coconuts?*