

## Max's Multiplication Challenge

*Learning objective: To assess understanding of multiplication tables, formal written methods, and problem-solving skills in line with the Year 4 National Curriculum.*

Read each question carefully. Show your working out for all calculations. You have 30 minutes to complete the paper.

Max the monkey is helping his friends organise their supplies for an expedition. He uses his maths skills to make sure they have enough items for everyone.

*Word bank: product · multiply · partitioning · factor · multiple · commutative*

**1. Max has 6 crates. Each crate contains 8 bananas. How many bananas does Max have in total? Write the multiplication number sentence. (2 marks)**

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**2. Calculate  $42 \times 3$  using the partitioning method. Show your steps. (3 marks)**

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**3. Fill in the missing numbers to complete these multiplication facts: a)  $7 \times 4 = ?$  b)  $? \times 9 = 81$  c)  $6 \times ? = 36$  (3 marks)**

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**4. Explain why  $5 \times 8$  is the same as  $8 \times 5$ . Use the word 'commutative' in your answer. (3 marks)**

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**5. Pip the caterpillar buys 4 new bookmarks. Each bookmark costs £1.25. How much does Pip spend in total? Show your working out. (4 marks)**

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6. Max is organising 132 walnuts into bags. Each bag must hold 4 walnuts. How many bags does he need? Show the formal written method (bus stop or column multiplication equivalent) to solve this. (5 marks)

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7. Write a short story (approx. 50 words) about Max helping Ellie the elephant buy 7 packs of peanuts, where each pack costs £3. Include the total cost in your story. (5 marks)

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**Draw:** Draw a set of 3 baskets, with 5 apples in each basket, to represent the multiplication sum  $3 \times 5 = 15$ .



*Extension challenge: Total: /25*