

Max's Multiplication Marathon

Learning objective: To multiply multi-digit numbers by multi-digit numbers and solve word problems using formal written methods.

Help Max the monkey solve these maths puzzles! Read each question carefully and show your working out where possible. Remember to use your knowledge of place value.

Answer Key: 1) C (14,400) 2) True 3) 2,808 4) B (1,512) 5) False 6) 6,432 7) B (560) 8) 12,000 9) A (624) 10) True

Word bank: product · multiplier · multiplicand · long multiplication · estimate · place holder

1. Max is gathering bananas. If he collects 120 bunches and each bunch has 120 bananas, what is the total? A) 1,440 B) 12,000 C) 14,400* D) 14,040 (1 mark)

2. True or False: When multiplying a whole number by 100, you move the digits two places to the left. (1 mark)

3. Calculate 36×78 . (1 mark)

4. If a cinema ticket costs £9, how much would it cost for 168 people to watch a film? A) £1,412 B) £1,512* C) £1,502 D) £1,612 (1 mark)

5. True or False: 45×20 is the same as $45 \times 2 \times 10$. (1 mark)

6. What is the product of 134 and 48? (1 mark)

7. Max estimates 28×19 by rounding to 30×20 . What is his estimate? A) 500 B) 560* C) 600 D) 580 (1 mark)

8. Calculate 400×30 . (1 mark)

9. Which calculation gives the answer 624? A) 26×24 * B) 24×24 C) 26×26 D) 28×22 (1 mark)

10. True or False: The 'place holder' (zero) is essential when multiplying by the tens digit in long multiplication. (1 mark)

Draw: Draw Max the monkey sitting under a tree surrounded by piles of bananas, with a chalkboard showing the calculation $12 \times 12 = 144$ nearby.



Extension challenge: Max has 15 boxes of marbles. Each box contains 24 bags of marbles, and each bag contains 12 marbles. How many marbles does Max have in total? Show your calculation steps.