

Max's Magnificent Mental Maths Challenge

Learning objective: To improve mental arithmetic fluency, including addition, subtraction, multiplication, and division, as well as applying knowledge of place value and currency in real-world contexts.

Join Max the monkey as he navigates the jungle of numbers! You have 10 quick-fire questions to solve. Show your workings where possible, but try to keep the numbers dancing in your head. Good luck!

Answer Key: 1. C (8,400); 2. True; 3. 42; 4. £12.50; 5. B (1,240); 6. False; 7. 15; 8. C (0.07); 9. 1,000; 10. 50.
Greater Depth Explanations: 1. Explain why: Multiplying by 100 shifts digits two places to the left. 2. Justify: $8,400 \div 12 = 700$. 3. Compare: £12.50 vs £15.00—the difference is £2.50.

Word bank: product · quotient · difference · total · integer · partition · remainder · estimate

**1. 1. Max has 84 bunches of bananas. If each bunch has 100 bananas, what is the product?
A) 840 B) 8,400* C) 84,000 D) 80,400 (1 mark)**

2. 2. True or False: The difference between 1,000 and 345 is 655. (1 mark)

3. 3. What is the quotient when 252 is divided by 6? (1 mark)

4. 4. If a bag of jungle nuts costs £2.50, how much would 5 bags cost? (1 mark)

5. 5. Calculate $1,500 - 260$. A) 1,140 B) 1,240* C) 1,340 D) 1,260 (1 mark)

6. 6. True or False: 0.5 is equivalent to $\frac{5}{100}$. (1 mark)

7. 7. What is 75 divided by 5? (1 mark)

8. 8. Which of these is the smallest value? A) 0.7 B) 0.77 C) 0.07* D) 0.70 (1 mark)

9. 9. If Max has 420 marbles and finds 580 more, what is his new total? (1 mark)

10. 10. Multiply 25 by 2. (1 mark)

Draw: Draw Max the monkey sitting under a tree, carefully counting a pile of fruit with a chalk-covered slate in his lap.



Extension challenge: 1. Explain why multiplying a decimal by 10 shifts the decimal point one place to the right. 2. Justify your answer: Is it easier to subtract 260 from 1,500 by partitioning the 260 into 200 and 60, or by counting up from 260? 3. What might happen if the price of the nuts increased by 20%? Calculate the new price. 4. Compare and contrast: How is dividing by 10 different from dividing by 100? 5. Create your own multi-step word problem involving at least three of the numbers used in this quiz. 6. If Max had £50.00 and spent £34.85, how much change would he have? Show your mental method.