

Max's Magnificent Multiples and Fabulous Factors Quiz

Learning objective: To identify, name and write factors and multiples of numbers, including recognising patterns and relationships.

Join Max the monkey as he swings through the jungle of maths! Read each question carefully and select or write your answer to help Max solve his jungle puzzles.

Answer Key: 1. A (2, 3, 4, 6, 9, 12); 2. True; 3. 40; 4. B (7); 5. False (15 is a multiple of 5, but 5 is a factor of 15); 6. 1, 2, 4, 8; 7. C (12); 8. True; 9. 3; 10. 12.

Word bank: factor · multiple · product · prime · divide · multiply

1. 1. Max is collecting coconuts. Which of these lists shows all the factor pairs of 36? A) 2, 3, 4, 6, 9, 12* B) 1, 2, 4, 8, 10 C) 6, 12, 18, 24 D) 3, 6, 9, 12, 15 (1 mark)

2. 2. True or False: 24 is a multiple of 8. (1 mark)

3. 3. If you count in steps of 5, what is the 8th multiple of 5? (1 mark)

4. 4. Which of these numbers is a factor of 21? A) 2 B) 7* C) 4 D) 5 (1 mark)

5. 5. True or False: 5 is a multiple of 15. (1 mark)

6. 6. Write down all the factors of 8. (1 mark)

7. 7. Max has 4 piles of bananas with 3 in each pile. Which number is a multiple of both 3 and 4? A) 7 B) 10 C) 12* D) 14 (1 mark)

8. 8. True or False: The number 1 is a factor of every whole number. (1 mark)

9. 9. What is the common factor of 9 and 12 (other than 1)? (1 mark)

10. 10. If Max buys 4 oranges for £3 each, what is the total cost in pounds (£)? (1 mark)

Draw: Draw Max the monkey holding a sign that shows the factors of 10, while sitting under a tree filled with multiple fruit shapes.



Extension challenge: Max has 24 building blocks. Can you find all the different ways he can arrange them into equal rows? List the factor pairs that show these arrangements.