

Max's Magnificent Multiples and Factors Quiz

Learning objective: To identify, find, and describe factors and multiples of numbers, including finding all factor pairs of a number, and understanding common factors.

Help Max the monkey solve these number puzzles! Read each question carefully. Some require you to choose the right letter, others are True or False, and some need a quick one-word answer.

Answer Key: 1.C, 2.True, 3.False, 4. 2, 5.B, 6.True, 7. 12, 8.B, 9. 1, 10.False. Explanation: Factors are numbers you multiply together to get another number. Multiples are the result of multiplying a number by an integer. A common factor is a number that divides into two different numbers exactly.

Word bank: Factor · Multiple · Product · Prime · Composite · Divisible

1. 1. Which of these is a factor of 12? A) 5, B) 8, C) 6*, D) 7 (1 mark)

2. 2. True or False: 20 is a multiple of 4. (1 mark)

3. 3. True or False: 7 is a multiple of 3. (1 mark)

4. 4. What is the smallest prime number? (1 mark)

5. 5. Which set of numbers are all multiples of 6? A) 6, 12, 16, B) 6, 12, 18*, C) 6, 10, 12, D) 6, 18, 26 (1 mark)

6. 6. True or False: Every number is a factor of itself. (1 mark)

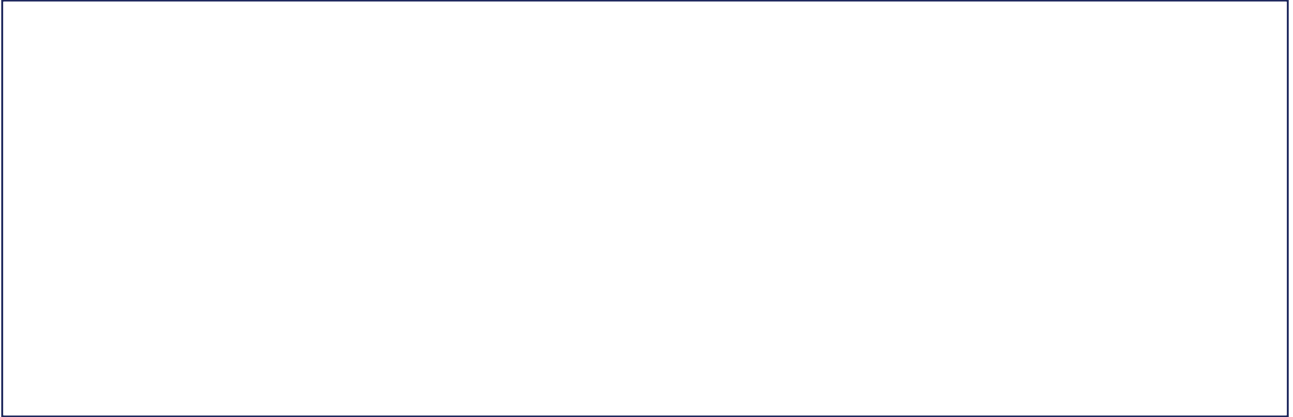
7. 7. What is the highest common factor (HCF) of 12 and 24? (1 mark)

8. 8. Which of these is a factor pair of 20? A) 2 and 8, B) 4 and 5*, C) 3 and 7, D) 2 and 12 (1 mark)

9. 9. What is the only number that is a factor of every whole number? (1 mark)

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

Draw: Draw Max the monkey holding a sign that shows all the factor pairs of the number 12, surrounded by jungle vines shaped like numbers.



Extension challenge: Max has £24 to spend on banana treats. If each treat costs £3, how many can he buy? Is 3 a factor of 24? Explain your reasoning using the word 'divisible'.