

Q1. In a number sequence, each number is exactly 3 more than the previous one. If the sequence starts with 7, what is the fourth number in this pattern?

Answer: _____

Q2. Look at the growing pattern: 2, 4, 8, 16, What is the mathematical rule used to create this sequence?

Answer: _____

Q3. Why do square tiles fit perfectly together on a floor while circular tiles leave empty gaps?

Answer: _____

Q4. In a secret code, the word **MATH** is written as 14-2-40-16 based on alphabet positions (A=2, B=4). What number represents the letter **T**?

Answer: _____

Q5. If you list 10 consecutive numbers starting with the odd number 21, do the odd and even numbers alternate or group together?

Answer: _____

Q6. A clock minute hand takes 60 minutes for one full circle. If the time is 1:00 PM, where will the minute hand point in 180 minutes?

Answer: _____

Q7. Observe the pattern: A, C, E, G, What are the next two letters in this sequence?

Answer: _____

Q8. A square is rotated by 45 degrees clockwise. Does its fundamental shape or its total number of edges change?

Answer: _____

Q9. If you arrange 30 coins in equal groups of 5 to make a repeating pattern, how many total groups will you have?

Answer: _____

Q10. Are all the products in the 4-times table (4, 8, 12, 16,) considered even numbers, odd numbers, or a mix of both?

Answer: _____