

Grade 4 - Factors, Multiples, Prime and Composite - Quiz

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Name: _____ Class: _____ Date: ____/____/____

Choose the best answer for each of the 10 questions on factors, multiples, prime and composite numbers. Read the explanation after each question to learn from any mistake.

Grade 4 · Common Core State Standards: **4.OA.B.4**

Questions

Question 1

Which number is a factor of 36?

- A. 8
- B. 5
- C. 9
- D. 7

Question 2

Which list shows all the factors of 15?

- A. 1, 3, 5
- B. 1, 3, 5, 15
- C. 3, 5, 15
- D. 1, 5, 15

Question 3

Which number is prime?

- A. 39
- B. 49
- C. 51
- D. 37

Question 4

Which number is a multiple of 7?

- A. 63
- B. 54

- C. 65
- D. 72

Question 5



4 rows of 6

Tiles in an array.

How many factor pairs does the number of tiles in the array have?

- A. 8
- B. 6
- C. 3
- D. 4

Question 6



Multiples of 8.

The dots show equal jumps. What is the next multiple in the pattern?

- A. 36
- B. 40
- C. 42
- D. 38

Question 7

Which number is divisible by both 2 and 5?

- A. 3,780
- B. 3,785
- C. 3,782
- D. 3,781

Question 8

Which statement is true?

- A. 2 is the only even prime number
- B. 1 is a prime number
- C. All odd numbers are prime
- D. Every composite number is even

Question 9



3 rows of 9

Tiles in an array.

Which number is NOT a factor of the number of tiles?

- A. 3
- B. 9
- C. 6
- D. 27

Question 10

A box holds 8 pencils. Which number of pencils can be packed into full boxes with none left over?

- A. 52
- B. 56
- C. 60
- D. 66

Answers

1. **C** – 36 divided by 9 is 4 with no remainder, so 9 is a factor. 36 divided by 8 is 4 with a remainder of 4.
2. **B** – The pairs are 1×15 and 3×5 . Leaving out 1 or 15 is a common mistake.
3. **D** – 37 has only the factors 1 and 37. $39 = 3 \times 13$, $49 = 7 \times 7$ and $51 = 3 \times 17$ are composite.
4. **A** – $7 \times 9 = 63$. The numbers 54, 65 and 72 fall between multiples of 7.
5. **D** – The array has 24 tiles. Factor pairs: 1×24 , 2×12 , 3×8 , 4×6 . That is 4 pairs. Eight is the number of factors, not pairs.
6. **B** – Each jump adds 8, so the next number is $32 + 8 = 40$.
7. **A** – A number ending in 0 is divisible by 2, 5 and 10. 3,785 ends in 5 (not even) and 3,782 ends in 2 (not a multiple of 5).
8. **A** – 2 has exactly two factors. Odd numbers like 9 and 15 are composite, and 1 has only one factor.
9. **C** – There are 27 tiles. 27 divided by 6 is 4 with a remainder of 3, so 6 is not a factor.
10. **B** – $56 = 8 \times 7$. The others leave pencils over: 52 leaves 4, 60 leaves 4, 66 leaves 2.

Remember

- A factor pair multiplies to make the number, such as 3 and 8 for 24.
- A number has a limited list of factors but endless multiples.
- A prime number has exactly two factors; a composite number has more than two.
- The number 1 is neither prime nor composite, and 2 is the only even prime.
- Last-digit patterns: 2 for even numbers, 5 for 0 or 5, 10 for 0.