

CHAPTER-5 | Prime Time

QUIZ
PART-02

1. What is a factor of a number?

- A. A number that multiplies to give another number
- B. A number that divides another number exactly
- C. A number that is always greater than the number
- D. A number that cannot divide any number (B)

Explanation: A factor is a number that divides another number exactly without leaving any remainder.

2. In Jumpy and Grumpy's game, if the treasure is on 24, which jump size will land on it?

- A. 5
- B. 7
- C. 4
- D. 11 (C)

Explanation: Jumpy lands on multiples of the jump size. Since 24 is a multiple of 4, jump size 4 will reach 24.

3. Which of the following is a factor of 24?

- A. 5
- B. 7
- C. 8
- D. 10 (C)

Explanation: A factor divides a number exactly. $24 \div 8 = 3$, so 8 is a factor of 24.

4. Which number is a common factor of 14 and 36?

- A. 2
- B. 5
- C. 7
- D. 9 (A)

Explanation: Factors of 14 are 1, 2, 7, 14 and factors of 36 include 1, 2, 3, 4, 6, 9, 12, 18, 36. The common factor among these options is 2.

5. Which of the following is a factor of 14?

- A. 3
- B. 6
- C. 7
- D. 9 (C)

Explanation: $14 \div 7 = 2$, so 7 is a factor of 14.

6. Which of the following is NOT a factor of 36?

- A. 4
- B. 6
- C. 8
- D. 9 (C)

Explanation: 36 is divisible by 4, 6, and 9, but $36 \div 8$ is not a whole number.

7. The common factors of 12 and 15 are:

- A. 1, 2, 3
- B. 1, 3
- C. 1, 5
- D. 3, 5 (B)

Explanation: Factors of 12 are 1, 2, 3, 4, 6, 12 and factors of 15 are 1, 3, 5, 15. Common factors are 1 and 3.

8. Which statement is correct about factors?

- A. Factors are always bigger than the number
- B. Factors divide a number exactly
- C. Factors are only even numbers
- D. Factors are the same as multiples (B)

Explanation: A factor is a number that divides another number exactly without remainder.

9. Which of the following is a common factor of 15 and 30?

- A. 4
- B. 6
- C. 15
- D. 8 (C)

Explanation: 15 divides both 15 and 30 exactly, so it is a common factor.

10. Factors of 24 include:

- A. 1, 2, 3, 4, 6, 8, 12, 24
- B. 2, 4, 5, 8, 10, 12
- C. 1, 3, 5, 7, 9, 24
- D. 2, 6, 9, 11, 12, 24 (A)

Explanation: All numbers in option A divide 24 exactly, so they are factors of 24.