



Number Theory - Shortcuts

1. What is the sum of all prime numbers less than 10?

- A) 17
- B) 18
- C) 19
- D) 20

Answer: A) 17

2. Which of the following is a perfect square?

- A) 18
- B) 21
- C) 25
- D) 30

Answer: C) 25

3. What is the greatest common divisor of 48 and 60?

- A) 12
- B) 15
- C) 20
- D) 24

Answer: D) 12

4. If a number is divisible by 9, then the sum of its digits must be:

- A) Divisible by 3
- B) Divisible by 6
- C) Divisible by 9
- D) Even

Answer: C) Divisible by 9

5. Which number is both a multiple of 4 and a multiple of 6?

- A) 24
- B) 20
- C) 18
- D) 28

Answer: A) 24



Divisibility Rules

1. Which of the following numbers is divisible by 8?

- A) 1232
- B) 4521
- C) 6398
- D) 5279

Answer: A) 1232

2. A number is divisible by 11 if the difference between the sum of the digits in odd positions and the sum of the digits in even positions is:

- A) 0
- B) 1
- C) 2
- D) 3

Answer: A) 0

3. Which of the following numbers is not divisible by 7?

- A) 154
- B) 273
- C) 385
- D) 462

Answer: B) 273

4. Which of the following is divisible by 5?

- A) 234
- B) 678
- C) 1125
- D) 1432

Answer: C) 1125

5. If a number is divisible by both 3 and 4, it must also be divisible by:

- A) 6
- B) 12
- C) 9
- D) 18

Answer: B) 12