

TB(1A) Ch. 0 Basic Mathematics**Multiple Choice Questions****1. [13-14 Standardized Test 1]**

The sum of a number and its opposite number must be

- A. zero.
- B. a natural number.
- C. a positive number.
- D. a negative number.

2. [13-14 Standardized Test 1]

Which of the following expressions are the H.C.F. and L.C.M. of $2^3 \times 3^2 \times 5$ and $2^2 \times 3^3 \times 7$?

- | | <u>H.C.F.</u> | <u>L.C.M.</u> |
|----|--------------------|------------------------------------|
| A. | $2^2 \times 3^2$, | $2^3 \times 3^3$ |
| B. | $2^2 \times 3^2$, | $2^3 \times 3^3 \times 5 \times 7$ |
| C. | $2^3 \times 3^3$, | $2^2 \times 3^2$ |
| D. | $2^3 \times 3^3$, | $2^2 \times 3^2 \times 5 \times 7$ |

3. [13-14 Standardized Test 1]

Let n be a natural number. Which of the following is/are true?

- I. $2n$ must be an even number.
- II. $n + 1$ must be an odd number.
- III. $n, n + 1$ and $n + 2$ must be consecutive natural numbers.

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II and III only

4. [13-14 Mid-year Exam]

It is given that a is a positive even number. Which of the following statement(s) must be true?

- I. $3a$ is even.
- II. $3 - a$ is a natural number.
- III. $a^3 - 1$ is odd.

- A. I only
- B. I and III only

- C. II and III only
- D. I, II and III

5. [14-15 Mid-year Exam #1]

Which of the following is/are true?

- I. 0 is a natural number.
- II. $\frac{12}{12}$ is an improper fraction.
- III. 1 is a prime number.

- A. I only
- B. II only
- C. I and III only
- D. II and III only

6. [14-15 Mid-year Exam #11]

Which of the following statements is false?

- A. The sum of an even number and an odd number must be odd.
- B. The difference between two odd numbers must be even.
- C. The product of four odd numbers must be odd.
- D. The product of a number and the number itself must be even.

7. [14-15 Final Exam #1]

Express 308 as a product of prime factors.

- A. $2 \times 2 \times 3 \times 7$
- B. $2 \times 2 \times 3 \times 11$
- C. $2 \times 2 \times 7 \times 11$
- D. $2 \times 2 \times 3 \times 7 \times 11$

8. [15-16 Mid-year Exam #1]

Which of the following must be true?

- I. All whole numbers are natural numbers.
- II. 0 is neither an even number nor an odd number.
- III. 0 is an integer.

- A. I only
- B. II only
- C. III only
- D. All of the above

9. [15-16 Mid-year Exam #11]

Which of the following does not have zero value?

- A. $(2 - 2) \div (2 \div 2)$
- B. $(2 \times 0) \div (2 + 2)$
- C. $(2 - 2) \times (2 \div 2)$
- D. $(2 \div 2) \div (2 - 2)$

10. [15-16 Final Exam, #1]

Which of the following is / are correct?

- I. 0 is a natural number.
- II. 1 is a prime number.
- III. 4 is a composite number.

- A. III only
- B. I and II only
- C. I and III only
- D. I, II and III

11. [16-17 Mid-year Exam, #1]

Find the H.C.F. of 242 and 484.

- A. 2
- B. 11
- C. 242
- D. 484

12. [16-17 Mid-year Exam, #2]

Convert $1\frac{6}{25}$ into decimal number.

- A. 1.06
- B. 1.24
- C. 1.25
- D. 1.6

13. [16-17 Final Exam, #1]

Find the L.C.M. of 15, 20 and 30.

- A. 5
- B. 60
- C. 120
- D. 360

14. [17-18 Mid-year Exam, #1]

Arrange 0.6, $\frac{5}{7}$, 75% and $\frac{13}{20}$ in ascending order.

- A. $0.6 < \frac{5}{7} < \frac{13}{20} < 75\%$
- B. $0.6 < \frac{13}{20} < \frac{5}{7} < 75\%$
- C. $0.6 > \frac{5}{7} > \frac{13}{20} > 75\%$
- D. $0.6 > \frac{13}{20} > \frac{5}{7} > 75\%$

15. [17-18 Mid-year Exam, #11]

Which of the following statement(s) must be correct?

- I. All prime numbers are odd numbers.
 - II. 0 is an even number.
 - III. A natural number is either a prime number or a composite number.
- A. I only
 - B. II only
 - C. I and III only
 - D. II and III only

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