

ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian Minority Institution Class: 7

Sub: Arithmetic Duration: 40 Min Worksheet Solution 27 SETS

b. Set of prime numbers less than 19 c. Set of odd numbers less than 20 d. Set of whole numbers less than 20 Date: 10.05.21 Full Marks: 15

Choose

ose the correct options:
1. List all the elements in A= {letters in the word "BOOK"}.
 a. A= {B,O,K} b. A= {B,O,O,K} c. A= {B,K} d. A=Φ 2. Which symbol completes the statement correctly? {6}{1,3,6}
 a. ∈ b. ⊂ c. = d. ⊄ 3. Q. Complete the statement correctly: Cow the set of all farm animals
 a. € b. □ c. = d. ⊄ 4. Which of the following is a well-defined set?
 a. {a happy child} b. {a popular TV series} c. {a favorite book by my classmates} d. {a Mathematics book in the school library} 5. Which of these sets is equal to {L,O,V,E}?
 a. {O,V,E} b. {S,E,V,O,L} c. {O,E,L,V} d. {L,E,V} 6. Which of these sets is equivalent but not equal to {Ram, Jay, Mick]
 a. {Mick, Jay, Olga} b. {Jay, Mick, Ram} c. {Mick, Jay, Ram} d. {Andy, Ram, Ed, Jay} 7. Describe this set in words: {2,3,5,7,11,13,17,19}
a. Set of prime numbers from 2 to 19

- 8. Which of the following statements is TRUE?
 - a. $2 \in \{1,3,5,7\}$
 - b. $\{5\} \in \{5,10,15,20,\}$
 - c. $6 \in \{x/x \text{ is an odd number}\}\$
- d. $3 \in \{x/x \text{ is a prime number}\}\$
- 9. Consider M={vowels in the word "MATHEMATICS"}. Find n(M).
- a. 4
- b. 3
- c. 7
- d. 10
- 10. Write {even whole numbers between 3 to 15} using the roster method.
 - a. {3,5,7,9,11,13,15}
 - b. {5,7,9,11,13}
 - c. {4,6,8,10,12,14}
 - d. {2,4,6,8,10,12,14,16}
- 11. It is a collection of well-defined group of objects.
 - a. Element
 - b. Set
 - c. Cardinality
 - d. Universal Set
- 12. Which best describe the set

$$\{0, 2, 4, 6, \ldots\}$$
?

- a. Set of all counting numbers divisible by 2
- b. Set of all composite numbers
- c. Set of all whole numbers divisible by 2
- d. Set of rational numbers
- 13. What type of set is denoted as either $\{\ \}$ or \emptyset ?
 - a. Superset
 - b. Disjointed Set
 - c. Empty (or Null) Set
 - d. Subset
- 14. Given that

$$R = \{ \text{ factors of } 36 \}.$$

n(R) =

- a. 6
- b. 9
- c. 12
- d. 15
- 15. Which of the following is not a well-defined set?
 - a. The set of boys in your class
 - b. The set of even numbers
 - c. The set of students wearing red dress
 - d. All of these