

TEST I. MULTIPLE CHOICE. Read each statement carefully. Write the letter of the best answer for each item on the space provided before the number.

1. Which of the following does not describe a set?
 - a. set is a well-defined group of objects|
 - b. sets can be written in roster or rule method|
 - c. set without any element is called empty set|
 - d. none of them|
2. Given that $A = \{2, 4, 6, 8\}$ and $B = \{3, 4, 5\}$; find $A \cap B$.
 - a. $\{2, 3, 4, 5, 6, 8\}$ | | c. $\{4\}$ |
 - b. $\{\}$ | | d. $\{2, 3, 5, 6, 8\}$ |
3. Given than $U = \{1, 2, 3, 4, 5, 6, 7, 8\}$,
 $A = \{1, 3, 5, 8\}$ and $B = \{2, 4, 6\}$; find A' .
 - a. $\{2, 4, 6, 7\}$ | | c. $\{4\}$ |
 - b. $\{1, 3, 5, 8\}$ | | d. $\{3, 5, 7\}$ |
4. Which of the following refers to the number of elements of a given set?
 - a. universal| | c. cardinality|
 - b. elements| | d. finite set|
5. Which of the following is NOT an empty set?
 - a. $A = \{\}$ | | c. $A = \{\emptyset\}$ |
 - b. set with no element| d. none of them|
6. In subtracting integers, you need to
 - a. change the subtrahend
 - b. change the sign of subtrahend

c. apply addition rule

d. change the sign of subtrahend and proceed to addition

7. Which set of numbers contains the negative and positive numbers with zero? a. natural numbers| |

c. counting numbers|

b. integers| d. whole numbers|

8. Which property of real numbers is shown with the statement $3x+y=y+3x$? a. closure| | c. distributive|

b. commutative| d. associative|

9. Adding integers with the same signs means ____

a. adding the numbers and use their common sign|

b. subtract the numbers and use the sign of number with greater absolute value| c. Add the numbers and

use the positive sign