

MATH 1

SET THEORY AND OPERATIONS

Exercises

Choose the best answer.

1. If $A = \{11, 13, 15, 17, 19\}$ and $B = \{12, 13, 15, 17\}$, what is $A \cup B$?
(a) $\{13, 15, 17\}$
(b) $\{11, 12, 19\}$
(c) $\{11, 13, 13, 15, 15, 17, 17, 19\}$
(d) $\{11, 12, 13, 15, 17, 19\}$

2. If $P =$ The set of whole numbers less than 5
 $Q =$ The set of even numbers greater than 3 but less than 9
 $R =$ The set of factors of 6
Then what is $(P \cap Q) \cup (Q \cap R)$?

- (a) $\{4\}$
(b) $\{4, 6\}$
(c) $\{4, 6, 8\}$
(d) $\{1, 2, 3, 4, 6, 8\}$

3. Using the same P , Q and R as number 2,
What is $(P \cup Q) \cap (Q \cup R)$?

- (a) $\{4, 6\}$
(b) $\{3, 4, 6\}$
(c) $\{2, 3, 4, 6, 8\}$
(d) $\{1, 2, 3, 4, 6, 8\}$

4. From the Venn diagram shown, what is $(A \cap B) \cup C$?

- (a) **(Mark, Paul, Bart, Matthew)**
(b) (Paul)
(c) (Mark, Paul, Matthew)
(d) (Paul, Bart, Matthew)

5. If A is the set of factors of 15,
 B is the set of prime numbers less than 9
 C is the set of even numbers less than 9
then what is $(A \cup B) \cap C$?

- (a) $\{1, 3, 5\}$
(b) $\{1, 2, 3\}$
(c) $\{2, 3, 5\}$
(d) $\{2\}$

6. Which one of the following sets is infinite?

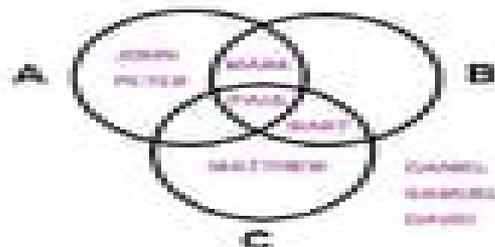
- (a) The set of whole numbers less than 10
(b) The set of prime numbers less than 10
(c) **The set of integers less than 10**
(d) The set of factors of 10

Solution:

$$a = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$$

$$b = \{2, 3, 5, 7\}$$

$$c = \{\dots, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$$



Set Theory Multiple Choice Questions With Answers

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