2016 E.C 1st Quarter Maths 2nd Worksheet for grade 9th

Name ---------- Grade ---------- Section ---------- No ----------

I. Write True or False accordingly.

_____1. Given two non empty sets $A \wedge B$, then $A - B = A \cap B'$

_____2. If two sets are equal then $A \Delta B = \emptyset$.

_____3. If for two non empty sets $A \wedge B$, if $n(A \Delta B) = n(A \cup B)$ then, sets $A \wedge B$ are equal sets

_____4. If set $A = \{a, b, c\}$ then $n(AXA) = 3$.

_____5. The set $\{x : x \in A \wedge X \in B\}$ represents $(A/B) \cap (B/A)$.

II. Choose the correct answer and write the letter on the space provided.

Let A = the set of composite numbers less than or equal 15, and B the set of even numbers less than or equal 15, and ∪ =1, 2, 3, …. , 15 then answer questions 6, 7, and 8 from the information given above.

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6. The set $A' \cap B'$ is:

A. $\{1, 3, 5, 7, 11, 13\}$ C. $\{2, 9, 15\}$

B. $\{2, 4, 6, 7, 9, 13\}$ D. $\{2, 4, 6, 8, 12, 14\}$

_____7. $A \Delta B$ is given by

A. $\{1, 3, 5, 7, 11, 13\}$ C. $\{2, 9, 15\}$

B. $\{2, 3, 5, 6, 9, 11, 13\}$ D. $\{2, 4, 6, 8, 12, 14\}$

_____8. The set $(\cup / A \cup B)$ is given by

A. $\{1, 3, 5, 7, 11, 13\}$ C. $\{2, 9, 15\}$

B. $\{2, 4, 6, 8, 12, 14\}$ D. $\{2, 3, 5, 6, 9, 11, 13\}$

_____9. Given two non−empty sets $A \wedge B$ with $n(A) = 30, n(B) = 36 \wedge n(A \cup B) = 43$, then calculate number of $A \cap B$?

A. 23 B. 35} C. 28 D. 33

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10.

There are 74 *people attending a meeting* 52 *of them drink tea* ∧ 42 *of them drink* coffee. If every person in the meeting drinks at least one of the two drinks, find the number of people who drink both tea and coffee.

A. 44 B. 46 C. 63 D. 20