NUNAVUT MATH 30-2 · UNIT 1 · 5 QUESTIONS

Set Theory and Logic — Practice Test

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1 **Given U = {a, b, c, d, e, f} and A = {a, c, e}, which statement is true?**

- A $d \notin A$
- B $b \in A$
- C $f \in A$
- D $A \subseteq \{a, c\}$

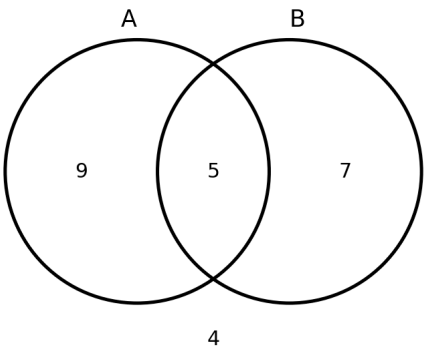
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2 **Set M is the set of even numbers between 1 and 9, and set N is the set of multiples of 4 between 1 and 13. Which statement is true?**

- A $M \subseteq N$
- B $N \subseteq M$
- C $M \cap N = \varnothing$
- D $M \cap N = \{4, 8\}$

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3 **The Venn diagram below shows sets A and B. The number of elements in A ∪ B is**



A 21

B 14

C 16

D 25

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4 **A universal set U has 45 elements and set C has 27 elements. The number of elements in the complement of C is ____ Record your answer as a whole number.**

ANSWER _____

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5 **A rectangular book has diagonals. For the statement If a figure is a rectangle, then its diagonals are equal, the conclusion is**



A A figure is a rectangle

B Its diagonals are not equal

C Its diagonals are equal

D A figure is not a rectangle

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ANSWER KEY

1. A
2. D
3. A
4. 18
5. C

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