NEWFOUNDLAND AND LABRADOR MATHEMATICS 2201 · UNIT A · 10 QUESTIONS

Logical Reasoning — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Think about the property. One counterexample is enough to disprove**

- A a single example
- B a universal statement
- C a definition
- D a conditional with a true premise

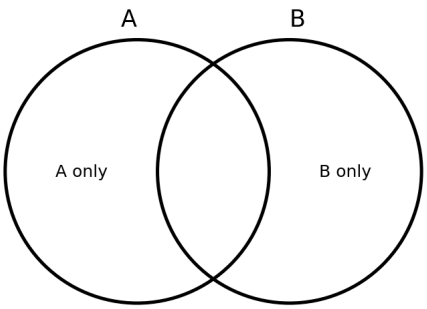
Understand It with Pulse | Flag a mistake

2 **Recall the property. The negation of all students passed is**

- A no student passed
- B all students failed
- C at least one student did not pass
- D some students passed

Understand It with Pulse | Flag a mistake

3 **Apply the property. In the Venn diagram, the overlapping region represents elements in**



- **A** A only
- **B** B only
- **C** neither A nor B
- **D** both A and B

Understand It with Pulse | Flag a mistake

4 **A group has 50 people. If 18 are in set A, how many are not in set A?**

ANSWER _____

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5 **Review the property. The converse of the statement if p then q is**

A if not p then not q

B if q then p

C if not q then not p

D p and q

Understand It with Pulse | Flag a mistake

6 **Think about the statement. The contrapositive of the statement if p then q is**

A if q then p

B if not p then not q

C if not q then not p

D p or q

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7 **Recall the statement. A statement that is always false is called**

A a tautology

B a converse

C an inductive argument

D a contradiction

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8 **Apply the statement. The statement p and q is true only when**

A both p and q are true

B p is true

C q is true

D at least one is true

Understand It with Pulse | Flag a mistake

9 **Consider the statement in general. The statement p or q is false only when**

A p is false

B both p and q are false

C q is false

D at least one is false

Understand It with Pulse | Flag a mistake

10 **A truth table for 2 variables has how many rows?**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. C
3. D
4. 32
5. B
6. C
7. D
8. A
9. B
10. 4

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