Logical Reasoning — Practice Test

Prince Edward Island Pre-Calculus Elective 11 • 10 questions

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1 **At a school fair, 48 visitors try the ring toss, 26 visitors try the bean bag toss, and 12 visitors try both games. How many visitors try at least one of the two games**

ANSWER _____

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2 **A small club has a truth table with 6 different statement letters. How many rows does the truth table have**

ANSWER _____

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3 **Suppose the claim is: If a fisherman checks the tide, then the boat leaves safely. Now consider: If the boat leaves safely, then a fisherman checks the tide. This new claim is the**

A inverse

B contrapositive

C negation

D converse

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4 **Suppose the claim is: If a garden is watered, then the soil stays moist. Now consider: If a garden is watered is false, then the soil stays moist is false. This new claim is the**

A inverse

B converse

C contrapositive

D original claim

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5 **Suppose the claim is: If a lighthouse lamp is lit, then ships can see the shore. Now consider: If a lighthouse lamp is lit is false, then ships can see the shore is false. This new claim is the**

- A inverse
- B converse
- C contrapositive
- D original claim

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6 **Suppose the claim is: If a potato field is irrigated, then the crop grows well. Now consider: If the crop grows well, then a potato field is irrigated. This new claim is the**

- A inverse
- B contrapositive
- C negation
- D converse

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7 **Suppose the claim is: If a road is salted, then ice melts faster. Now consider: If a road is salted is false, then ice melts faster is false. This new claim is the**

- **A** converse
- **B** contrapositive
- **C** inverse
- **D** original claim

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8 **Suppose the claim is: If a student joins the choir, then the student sings at the concert. Now consider: If the student sings at the concert, then a student joins the choir. This new claim is the**

- **A** inverse
- **B** converse
- **C** contrapositive
- **D** negation

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9 **Suppose the claim is: If a team practices daily, then the team improves. Now consider: If the team improves, then a team practices daily. This new claim is the**

A inverse

B converse

C contrapositive

D negation

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10 **At a school fair, 55 visitors try the ring toss, 33 visitors try the bean bag toss, and 20 visitors try both games. How many visitors try at least one of the two games**

ANSWER _____

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ANSWER KEY

1.	62	**5.**	A	**9.**	B
2.	64	**6.**	D	**10.**	68
3.	D	**7.**	C		
4.	A	**8.**	B		

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