PRINCE EDWARD ISLAND PRE-CALCULUS ELECTIVE 11 · UNIT A

Logical Reasoning — Practice Test

Prince Edward Island Pre-Calculus Elective 11 • 25 questions

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 **A collection with 3 different items has how many different subsets**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A ferry survey counts 80 passengers who visit Charlottetown, 60 passengers who visit Summerside, and 25 passengers who visit both towns. How many passengers visit at least one of the two towns**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **At a school fair, 25 visitors try the ring toss, 18 visitors try the bean bag toss, and 7 visitors try both games. How many visitors try at least one of the two games**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A teacher writes: If a bicycle tire is inflated, then the bicycle rolls smoothly. The teacher then writes: If the bicycle rolls smoothly, then a bicycle tire is inflated. The second sentence is the**

A converse

B inverse

C contrapositive

D negation

Understand It with Pulse | Flag a mistake

6 **A teacher writes: If a book is borrowed, then it must be returned. The teacher then writes: If it must be returned is false, then a book is borrowed is false. The second sentence is the**

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

Understand It with Pulse | Flag a mistake

7 **A teacher writes: If a ferry leaves on time, then passengers board early. The teacher then writes: If passengers board early, then a ferry leaves on time. The second sentence is the**

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

Understand It with Pulse | Flag a mistake

8 **A teacher writes: If a fisherman checks the tide, then the boat leaves safely. The teacher then writes: If the boat leaves safely is false, then a fisherman checks the tide is false. The second sentence is the**

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

Understand It with Pulse | Flag a mistake

9 **A teacher writes: If a garden is watered, then the soil stays moist. The teacher then writes: If the soil stays moist, then a garden is watered. The second sentence is the**

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

Understand It with Pulse | Flag a mistake

10 **A teacher writes: If a lighthouse lamp is lit, then ships can see the shore. The teacher then writes: If ships can see the shore, then a lighthouse lamp is lit. The second sentence is the**

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

Understand It with Pulse | Flag a mistake

11 **A teacher writes: If a potato field is irrigated, then the crop grows well. The teacher then writes: If the crop grows well is false, then a potato field is irrigated is false. The second sentence is the**

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

Understand It with Pulse | Flag a mistake

12 **A teacher writes: If a road is salted, then ice melts faster. The teacher then writes: If ice melts faster, then a road is salted. The second sentence is the**

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

Understand It with Pulse | Flag a mistake

13 **A teacher writes: If a student joins the choir, then the student sings at the concert. The teacher then writes: If the student sings at the concert is false, then a student joins the choir is false. The second sentence is the**

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

Understand It with Pulse | Flag a mistake

14 **A teacher writes: If a team practices daily, then the team improves. The teacher then writes: If the team improves is false, then a team practices daily is false. The second sentence is the**

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

Understand It with Pulse | Flag a mistake

15 **Suppose the claim is: If a bicycle tire is inflated, then the bicycle rolls smoothly. Now consider: If a bicycle tire is inflated is false, then the bicycle rolls smoothly is false. This new claim is the**

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

Understand It with Pulse | Flag a mistake

16 **Suppose the claim is: If a book is borrowed, then it must be returned. Now consider: If it must be returned, then a book is borrowed. This new claim is the**

A inverse

B contrapositive

C negation

D converse

Understand It with Pulse | Flag a mistake

17 **Suppose the claim is: If a ferry leaves on time, then passengers board early. Now consider: If a ferry leaves on time is false, then passengers board early is false. This new claim is the**

A converse

B contrapositive

C inverse

D original claim

Understand It with Pulse | Flag a mistake

18 **A collection with 4 different items has how many different subsets**

ANSWER _____

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19 **A ferry survey counts 95 passengers who visit Charlottetown, 75 passengers who visit Summerside, and 40 passengers who visit both towns. How many passengers visit at least one of the two towns**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A small club has a truth table with 3 different statement letters. How many rows does the truth table have**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **At a school fair, 40 visitors try the ring toss, 22 visitors try the bean bag toss, and 10 visitors try both games. How many visitors try at least one of the two games**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A collection with 5 different items has how many different subsets**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A ferry survey counts 70 passengers who visit Charlottetown, 50 passengers who visit Summerside, and 20 passengers who visit both towns. How many passengers visit at least one of the two towns**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A small club has a truth table with 4 different statement letters. How many rows does the truth table have**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **At a school fair, 30 visitors try the ring toss, 35 visitors try the bean bag toss, and 14 visitors try both games. How many visitors try at least one of the two games**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 8
2. 115
3. 4
4. 36
5. A
6. B
7. A
8. B
9. C
10. C
11. B
12. A
13. D
14. D
15. C
16. D
17. C
18. 16
19. 130
20. 8
21. 52
22. 32
23. 100
24. 16
25. 51

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