PRINCE EDWARD ISLAND PRE-CALCULUS ELECTIVE 11 · FINAL EXAM

Final Exam — Practice Test

Prince Edward Island Pre-Calculus Elective 11 • 50 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 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

2 **What is the sum of the interior angles of a polygon with 5 sides, in degrees**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A class has 5 students chosen equally, and 2 of them are in Grade 11. If one student is chosen at random, what is the probability the student is in Grade 11, as a decimal**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Two independent events have probabilities $\frac{1}{2}$ and $\frac{1}{3}$. What is the probability that both events happen , to three decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An item costs 100 dollars before tax, and tax is 15 percent. What is the total cost in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **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

7 **A regular hexagon has each interior angle equal to**

A 90 degrees

B 108 degrees

C 120 degrees

D 135 degrees

Understand It with Pulse | Flag a mistake

8 **A negative correlation means as one variable increases, the other tends to**

A increase

B stay constant

C decrease

D become zero

Understand It with Pulse | Flag a mistake

9 **A probability experiment repeated many times tends toward its**

A sample mean

B median

C mode

D theoretical probability

Understand It with Pulse | Flag a mistake

10 **Adding 15 percent tax to a price means multiplying the price by**

A 1.15

B 0.15

C 1.5

D 0.85

Understand It with Pulse | Flag a mistake

11 **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

12 **An angle of 270 degrees is an example of a**

- A acute angle
- B obtuse angle
- C reflex angle
- D right angle

Understand It with Pulse | Flag a mistake

13 **A smaller standard deviation means the data are**

- A spread widely
- B clustered near the mean
- C skewed
- D bimodal

Understand It with Pulse | Flag a mistake

14 **Choosing 2 items from 5 where order matters is a**

- A combination
- B probability
- C permutation
- D sample

Understand It with Pulse | Flag a mistake

15 **Compound interest is calculated on the principal plus**

- A tax only
- B previously earned interest
- C discount only
- D fees only

Understand It with Pulse | Flag a mistake

16 **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

17 **The distance from the centre of a circle to any point on the circle is the**

A radius

B diameter

C circumference

D chord

Understand It with Pulse | Flag a mistake

18 **The first quartile marks the value below which about**

A half the data lies

B one quarter of the data lies

C three quarters lie

D all data lies

Understand It with Pulse | Flag a mistake

19 **If events A and B are mutually exclusive, P of A or B equals**

A P of A times P of B

B P of A plus P of B

C P of A minus P of B

D 1

Understand It with Pulse | Flag a mistake

20 **If spending exceeds income, the difference is a**

A surplus

B profit

C interest

D deficit

Understand It with Pulse | Flag a mistake

21 **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

22 **The sum of the interior angles of a pentagon is**

A 360 degrees

B 540 degrees

C 720 degrees

D 180 degrees

Understand It with Pulse | Flag a mistake

23 The median of 3, 6, 8, 11, 14, 20 is

- A 8
- B 9.5
- C 11
- D 10

Understand It with Pulse | Flag a mistake

24 The expected number of heads in 100 tosses of a fair coin is

- A 100
- B 50
- C 25
- D 75

Understand It with Pulse | Flag a mistake

25 **A jacket originally costs 120 dollars and is discounted by 20 percent. What is the sale price in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **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

27 **What is the sum of the interior angles of a polygon with 6 sides, in degrees**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **The weekly temperatures in degrees are 8, 9, 11, 12, 15. What is the median temperature**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **Two independent events have probabilities $\frac{1}{3}$ and $\frac{1}{4}$. What is the probability that both events happen , to three decimal places**

ANSWER

Understand It with Pulse | Flag a mistake

30 **A jacket originally costs 60 dollars and is discounted by 50 percent. What is the sale price in dollars**

ANSWER

Understand It with Pulse | Flag a mistake

31 **A ferry survey counts 110 passengers who visit Charlottetown, 85 passengers who visit Summerside, and 45 passengers who visit both towns. How many passengers visit at least one of the two towns**

ANSWER

Understand It with Pulse | Flag a mistake

32 **A circle has radius 6 centimetres. Using 3.14 for pi, what is the circumference of the circle in centimetres, to two decimal places**

ANSWER

Understand It with Pulse | Flag a mistake

33 **A lobster boat records daily catches of 6, 10, 14, 18, 22 kilograms over five days. What is the mean daily catch in kilograms**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **A spinner has 4 equal sections, and 2 of the sections are shaded. The spinner is spun once. What is the probability of landing on a shaded section, as a decimal**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A loan of 700 dollars charges simple interest at 5 percent per year for 4 years. What is the total interest charged in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **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 _____

Understand It with Pulse | Flag a mistake

37 **What is the sum of the interior angles of a polygon with 7 sides, in degrees**

ANSWER

Understand It with Pulse | Flag a mistake

38 **The weekly temperatures in degrees are 20, 25, 30, 35, 40. What is the median temperature**

ANSWER

Understand It with Pulse | Flag a mistake

39 **Two independent events have probabilities $\frac{1}{4}$ and $\frac{1}{5}$. What is the probability that both events happen , to three decimal places**

ANSWER

Understand It with Pulse | Flag a mistake

40 **Simple interest is earned on a principal of 1000 dollars at 3 percent per year for 4 years. What is the simple interest in dollars**

ANSWER

Understand It with Pulse | Flag a mistake

41 **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

Understand It with Pulse | Flag a mistake

42 **Two angles that share a side and a vertex and do not overlap are**

A vertical angles

B supplementary angles

C alternate angles

D adjacent angles

Understand It with Pulse | Flag a mistake

43 The mode of 4, 4, 7, 9, 9, 9 is

- A 9
- B 4
- C 7
- D 6

Understand It with Pulse | Flag a mistake

44 The number of permutations of 3 distinct letters is

- A 3
- B 9
- C 27
- D 6

Understand It with Pulse | Flag a mistake

45 **Simple interest is calculated on the**

A original principal only

B accumulated interest

C final amount only

D tax only

Understand It with Pulse | Flag a mistake

46 **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

47 **A circle has radius 6 centimetres. Using 3.14 for pi, what is the area of the circle in cm², to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **The weekly temperatures in degrees are 6, 10, 14, 18, 22. What is the median temperature**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **Two independent events have probabilities $\frac{1}{5}$ and $\frac{1}{6}$. What is the probability that both events happen , to three decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **Simple interest is earned on a principal of 600 dollars at 6 percent per year for 2 years. What is the simple interest in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	4	**18.**	B	**35.**	140.00
2.	540	**19.**	B	**36.**	62
3.	0.40	**20.**	D	**37.**	900
4.	0.167	**21.**	130	**38.**	30
5.	115.00	**22.**	B	**39.**	0.050
6.	A	**23.**	B	**40.**	120.00
7.	C	**24.**	B	**41.**	A
8.	C	**25.**	96.00	**42.**	D
9.	D	**26.**	100	**43.**	A
10.	A	**27.**	720	**44.**	D
11.	D	**28.**	11	**45.**	A
12.	C	**29.**	0.083	**46.**	C
13.	B	**30.**	30.00	**47.**	113.04
14.	C	**31.**	150	**48.**	14
15.	B	**32.**	37.68	**49.**	0.033
16.	C	**33.**	14.00	**50.**	72.00
17.	A	**34.**	0.50		

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