Final Exam — Practice Test

Prince Edward Island Foundations of Mathematics 12 • 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 truck costs 12000 dollars with a salvage value of 2000 dollars after 5 years. The annual straight line depreciation in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A truth table with 2 simple statements has this many rows**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A bag holds 4 green balls and 6 yellow balls. The probability of drawing a green ball as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The degree of the polynomial $4x^5 + 2x^2 + 1$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A sample of 800 grams halves every day. After 3 days the mass in grams is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A deposit of 600 dollars at 10 percent simple interest for 2 years earns in interest in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A club has 45 members in choir and 35 in band, with 15 in both. The number in at least one group is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A fair coin is tossed three times. The probability of three heads as a decimal is**

ANSWER

Understand It with Pulse | Flag a mistake

9 **A turning point of a polynomial graph is a point where the graph**

A becomes a straight line

B has a hole

C changes direction

D crosses the y axis

Understand It with Pulse | Flag a mistake

10 **An angle of 180 degrees in radians, using pi as the unit, has a coefficient of pi equal to**

ANSWER

Understand It with Pulse | Flag a mistake

11 **A mortgage with a lower interest rate will have**

A lower total interest cost

B higher monthly payments always

C a longer term always

D no down payment

Understand It with Pulse | Flag a mistake

12 **A valid argument has a conclusion that**

A contradicts a premise

B must be true if the premises are true

C is always false

D is probably true

Understand It with Pulse | Flag a mistake

13 **A sample space lists**

A only favourable outcomes

B only likely outcomes

C the experimental results

D all possible outcomes

Understand It with Pulse | Flag a mistake

14 **The degree of the product of x^2 and x^3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Logarithms turn multiplication into**

A addition

B subtraction

C division

D exponentiation

Understand It with Pulse | Flag a mistake

16 **An annuity is a series of**

A discounted prices

B equal payments at regular intervals

C one large payment

D rising tax bills

Understand It with Pulse | Flag a mistake

17 **Inductive reasoning moves from**

A specific cases to a general rule

B a general rule to a specific case

C a false premise to a truth

D one definition to another

Understand It with Pulse | Flag a mistake

18 **Order does not matter in a**

A permutation

B arrangement

C sequence

D combination

Understand It with Pulse | Flag a mistake

19 **The leading coefficient of $-2x^4 + x^2$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The logarithm base 10 of 1000 = 3 because**

A $10 \times 3 = 1000$

B $10 + 3 = 1000$

C $\frac{1000}{10} = 3$

D $10^3 = 1000$

Understand It with Pulse | Flag a mistake

21 **A truck costs 9000 dollars with a salvage value of 1000 dollars after 4 years. The annual straight line depreciation in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A truth table with 3 simple statements has this many rows**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **The number of ways to arrange 4 distinct letters in a row is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **The product of the zeros of $x^2 - 7x + 10$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The tangent of an angle equals**

A sine times cosine

B one over sine

C sine over cosine

D cosine over sine

Understand It with Pulse | Flag a mistake

26 **A loan of 900 dollars earns simple interest at 6 percent per year for 4 years. The interest earned in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **A set with 8 elements has this many subsets**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **The number of permutations of 2 items chosen from 8 distinct items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **When the polynomial $2x^3 - 1x^2 + 0x + 5$ is / (x - 1) , the remainder is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **The cosine of 90 degrees as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **Amortization means paying off a loan by**

- A skipping payments
- B regular payments of principal and interest
- C one payment at the end only
- D paying interest only forever

Understand It with Pulse | Flag a mistake

32 **A truth table with 5 simple statements has this many rows**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **The number of permutations of 2 items chosen from 9 distinct items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **The product of the zeros of $x^2 + 5x + 6$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **The value of 10^3 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **An investment of 1200 dollars compounds annually at 5 percent per year for 3 years. The final amount in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **A truth table with 9 simple statements has this many rows**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **The number of combinations of 3 items chosen from 12 distinct items is**

ANSWER

Understand It with Pulse | Flag a mistake

39 **When the polynomial $1x^3 + 2x^2 - 5x + 3$ is / (x - 2) , the remainder is**

ANSWER

Understand It with Pulse | Flag a mistake

40 **The base 10 logarithm of 10000 is**

ANSWER

Understand It with Pulse | Flag a mistake

41 **Compound interest differs from simple interest because it is calculated on**

A principal only

B tax only

C the discount only

D principal plus past interest

Understand It with Pulse | Flag a mistake

42 **The negation of p or q is**

A p and q

B p or not q

C not p and not q

D not p or not q

Understand It with Pulse | Flag a mistake

43 **Two events are mutually exclusive when they**

- A have equal probability
- B are independent
- C cannot both occur
- D always occur together

Understand It with Pulse | Flag a mistake

44 **The sum of the zeros of $x^2 + 5x + 6$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **The tangent of 45 degrees as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **An investment of 2500 dollars compounds annually at 10 percent per year for 2 years. The final amount in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **A truth table with 10 simple statements has this many rows**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **The value of 4 factorial is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **For the polynomial function with value given by $-2x^2 + 3x + 6$, the value at $x = 2$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **The base 2 logarithm of 32 is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	2000	**18.**	D	**35.**	1000
2.	4	**19.**	-2	**36.**	1389.15
3.	0.4	**20.**	D	**37.**	512
4.	5	**21.**	2000	**38.**	220
5.	100	**22.**	8	**39.**	9
6.	120	**23.**	24	**40.**	4
7.	65	**24.**	10	**41.**	D
8.	0.125	**25.**	C	**42.**	C
9.	C	**26.**	216	**43.**	C
10.	1	**27.**	256	**44.**	-5
11.	A	**28.**	56	**45.**	1
12.	B	**29.**	6	**46.**	3025
13.	D	**30.**	0	**47.**	1024
14.	5	**31.**	B	**48.**	24
15.	A	**32.**	32	**49.**	4
16.	B	**33.**	72	**50.**	5
17.	A	**34.**	6		

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