NEWFOUNDLAND AND LABRADOR MATHEMATICS 2201 · FINAL EXAM · 50 QUESTIONS

Final Exam — 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 **Recall the definition. The converse 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 and q

Understand It with Pulse | Flag a mistake

2 **The coefficient of $\sqrt{5}$ in $5\sqrt{5} + 2\sqrt{5}$ simplified is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Two angles of a triangle measure 35° and 85°. The third angle, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The smaller x intercept of y = (x - 5)(x + 1) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **The mode of 1, 2, 2, 2, 9 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Apply the definition carefully. The statement p and q is true only when**

A p is true

B q is true

C at least one is true

D both p and q are true

Understand It with Pulse | Flag a mistake

7 **The value of $16^{1/4}$ is**

ANSWER

Understand It with Pulse | Flag a mistake

8 **Check the definition first. Parallel lines cut by a transversal make alternate interior angles**

A supplementary

B complementary

C equal

D unrelated

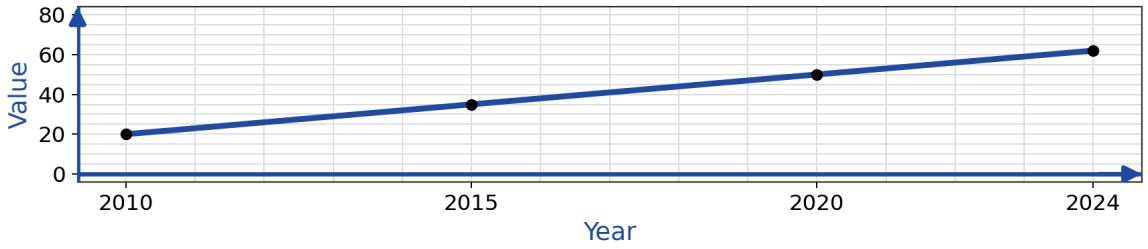
Understand It with Pulse | Flag a mistake

9 **The parabola shown has vertex (1, 2). Its minimum value is**

- **A** 1
- **B** -2
- **C** 2
- **D** 0

Understand It with Pulse | Flag a mistake

10 **The graph shows a value over time. The value in 2020 was**



- **A** 35
- **B** 62
- **C** 50
- **D** 20

Understand It with Pulse | Flag a mistake

11 **Consider the meaning of the term. The statement p or q is false only when**

A both p and q are false

B p is false

C q is false

D at least one is false

Understand It with Pulse | Flag a mistake

12 **Recall the rule. The equation $\sqrt{x} = -3$ has**

A one solution, x equals 9

B one solution, x equals -9

C infinitely many solutions

D no real solution

Understand It with Pulse | Flag a mistake

13 **A model is 20 cm long and represents an object 500 cm long. The scale factor, as 1 to n, has n equal to**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **The x coordinate of the vertex of $y = x^2 + -8x + 5$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Two independent events have probabilities $\frac{1}{2}$ and $\frac{1}{3}$. The probability both occur is**

A $\frac{1}{5}$

B $\frac{2}{3}$

C $\frac{1}{6}$

D $\frac{5}{6}$

Understand It with Pulse | Flag a mistake

16 **Start from the definition. Inductive reasoning moves from**

A general principles to a specific conclusion

B a theorem to an axiom

C a conclusion to a premise

D specific cases to a general claim

Understand It with Pulse | Flag a mistake

17 **The square root of 100 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **An angle measures 68°. Its complement, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **The vertex of $y = (x - 4)^2 + -2$ is**

A (-4, -2)

B (4, 2)

C (4, -2)

D (-4, 2)

Understand It with Pulse | Flag a mistake

20 **The mean of 2, 4, 6, 8 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Recall the rule. The negation of all students passed is**

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

Understand It with Pulse | Flag a mistake

22 **Solve $\sqrt{x + 7} = 3$ for x. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **On a map with scale 1 to 20000, a distance of 5 cm represents, in kilometres, a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **The curve of a quadratic function is called**

- **A** a line
- **B** a hyperbola
- **C** a parabola
- **D** a circle

Understand It with Pulse | Flag a mistake

25 **A bag has 20 balls, of which 5 are red. The probability of drawing a red ball is**

- **A** $\frac{15}{20}$
- **B** $\frac{5}{15}$
- **C** $\frac{5}{20}$
- **D** $\frac{1}{5}$

Understand It with Pulse | Flag a mistake

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

- **A** if q then p
- **B** if not p then not q
- **C** p or q
- **D** if not q then not p

Understand It with Pulse | Flag a mistake

27 **In simplest form, the square root of 18 is**

- **A** $3\sqrt{3}$
- **B** $4\sqrt{2}$
- **C** 18
- **D** $3\sqrt{2}$

Understand It with Pulse | Flag a mistake

28 **An inscribed angle subtends the same arc as a central angle of 60°. The inscribed angle, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **The maximum value of $y = -x^2 + 6x + 5$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **Apply the principle. The median is also called**

A the first quartile

B the third quartile

C the second quartile

D the range

Understand It with Pulse | Flag a mistake

31 **Remember how the term is defined. In set notation, A union B contains elements in**

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

Understand It with Pulse | Flag a mistake

32 **The value of $27^{1/3}$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **Recall the idea. Parallel lines cut by a transversal make alternate interior angles**

A supplementary

B equal

C complementary

D unrelated

Understand It with Pulse | Flag a mistake

34 **Recall the idea. The parabola shown has vertex (2, -3). Its minimum value is**

A 2

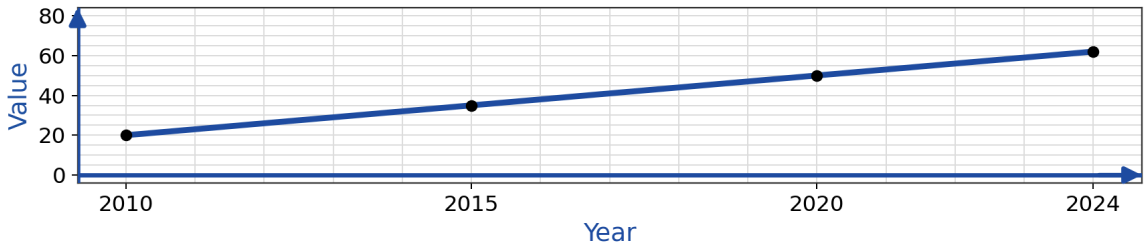
B -3

C 3

D 0

Understand It with Pulse | Flag a mistake

35 **Recall the idea. The graph shows a value over time. The value in 2020 was**



A 35

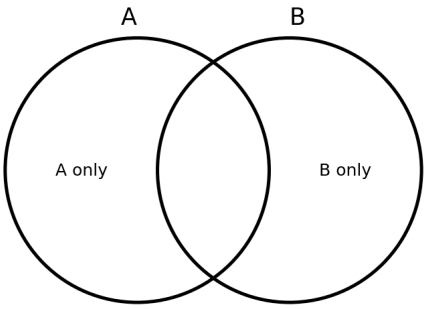
B 50

C 62

D 20

Understand It with Pulse | Flag a mistake

36 **In the Venn diagram, the overlapping region represents elements in**



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

Understand It with Pulse **Flag a mistake**

37 The domain of $f(x) = \sqrt{x + 3}$ is

- **A** $x \leq -3$
- **B** $x \geq -3$
- **C** $x > -3$
- **D** $x \geq 3$

Understand It with Pulse | Flag a mistake

38 A model is 12 cm long and represents an object 240 cm long. The scale factor, as 1 to n, has n equal to

ANSWER _____

Understand It with Pulse | Flag a mistake

39 The x coordinate of the vertex of $y = x^2 + 10x + 5$ is

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **Think about the property. Two independent events have probabilities $\frac{1}{2}$ and $\frac{1}{3}$. The probability both occur is**

- **A** $\frac{1}{5}$
- **B** $\frac{1}{6}$
- **C** $\frac{2}{3}$
- **D** $\frac{5}{6}$

Understand It with Pulse | Flag a mistake

41 **Recall the concept. A statement that is always false is called**

- **A** a contradiction
- **B** a tautology
- **C** a converse
- **D** an inductive argument

Understand It with Pulse | Flag a mistake

42 **The square root of 64 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **An angle measures 52°. Its complement, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **The vertex of $y = (x - -1)^2 + 5$ is**

A (1, 5)

B (-1, 5)

C (-1, -5)

D (1, -5)

Understand It with Pulse | Flag a mistake

45 **The mean of 3, 5, 7, 9, 11 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **Think about the principle. Deductive reasoning moves from**

A general principles to a specific conclusion

B specific cases to a general claim

C a guess to a proof

D an example to a counterexample

Understand It with Pulse | Flag a mistake

47 **Solve $\sqrt{x + 6} = 5$ for x. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **On a map with scale 1 to 25000, a distance of 4 cm represents, in kilometres, a real distance of**

ANSWER

Understand It with Pulse | Flag a mistake

49 **The curve of a quadratic function is called**

A a line

B a parabola

C a hyperbola

D a circle

Understand It with Pulse | Flag a mistake

50 **A bag has 12 balls, of which 4 are red. The probability of drawing a red ball is**

A $\frac{8}{12}$

B $\frac{4}{12}$

C $\frac{4}{8}$

D $\frac{1}{4}$

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**18.**	22	**35.**	B
2.	7	**19.**	C	**36.**	A
3.	60	**20.**	5	**37.**	B
4.	-1	**21.**	D	**38.**	20
5.	2	**22.**	2	**39.**	-5
6.	D	**23.**	1	**40.**	B
7.	2	**24.**	C	**41.**	A
8.	C	**25.**	C	**42.**	8
9.	C	**26.**	D	**43.**	38
10.	C	**27.**	D	**44.**	B
11.	A	**28.**	30	**45.**	7
12.	D	**29.**	14	**46.**	A
13.	25	**30.**	C	**47.**	19
14.	4	**31.**	A	**48.**	1
15.	C	**32.**	3	**49.**	B
16.	D	**33.**	B	**50.**	B
17.	10	**34.**	B		

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