MANITOBA APPLIED MATHEMATICS 30S · UNIT E · 25 QUESTIONS

Inductive and Deductive Reasoning — 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 **The number of possible outcomes when flipping a coin 3 times is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The number of ordered pairs that can be formed from 8 different items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A puzzle asks for the sum of 6 and the product of 6 and 5. That total is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The number of ways to arrange 3 different items in order is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A team earns 3 points for a win and 1 point for a draw. With 5 wins and 3 draws, its points total is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **An arithmetic pattern starts at 4 and increases by 4. Term 8 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The number of possible outcomes when flipping a coin 6 times is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The number of ordered pairs that can be formed from 6 different items is**

ANSWER

Understand It with Pulse | Flag a mistake

9 **A puzzle asks for the sum of 7 and the product of 7 and 5. That total is**

ANSWER

Understand It with Pulse | Flag a mistake

10 **The number of ways to arrange 6 different items in order is**

ANSWER

Understand It with Pulse | Flag a mistake

11 **A team earns 3 points for a win and 1 point for a draw. With 3 wins and 3 draws, its points total is**

ANSWER

Understand It with Pulse | Flag a mistake

12 **An arithmetic pattern starts at 4 and increases by 5. Term 8 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **The number of possible outcomes when flipping a coin 4 times is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **The number of ordered pairs that can be formed from 4 different items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A puzzle asks for the sum of 8 and the product of 8 and 5. That total is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A triangle with all sides equal is**

A equilateral

B isosceles

C scalene

D right

Understand It with Pulse | Flag a mistake

17 **A triangle with two sides equal is**

A equilateral

B isosceles

C scalene

D obtuse

Understand It with Pulse | Flag a mistake

18 **A triangle with no sides equal is**

A isosceles

B equilateral

C scalene

D right

Understand It with Pulse | Flag a mistake

19 **The longest side of a right triangle is the**

A adjacent

B opposite

C leg

D hypotenuse

Understand It with Pulse | Flag a mistake

20 **In a right triangle, the side opposite the right angle is the**

- A hypotenuse
- B adjacent
- C opposite side
- D base

Understand It with Pulse | Flag a mistake

21 **The sum of the interior angles of a triangle is**

- A 90 degrees
- B 180 degrees
- C 270 degrees
- D 360 degrees

Understand It with Pulse | Flag a mistake

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

A 180 degrees

B 270 degrees

C 360 degrees

D 540 degrees

Understand It with Pulse | Flag a mistake

23 **A polygon with five sides is a**

A hexagon

B octagon

C heptagon

D pentagon

Understand It with Pulse | Flag a mistake

24 **A polygon with six sides is a**

A hexagon

B pentagon

C octagon

D decagon

Understand It with Pulse | Flag a mistake

25 **A polygon with eight sides is an**

A hexagon

B octagon

C pentagon

D decagon

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 8
2. 56
3. 36
4. 6
5. 18
6. 32
7. 64
8. 30
9. 42
10. 720
11. 12
12. 39
13. 16
14. 12
15. 48
16. A
17. B
18. C
19. D
20. A
21. B
22. C
23. D
24. A
25. B

© 2026 Brett Robbins. All Rights Reserved.