NUMERICAL AND LOGICAL REASONING - PRACTICE TEST | NEW BRUNSWICK FOUNDATIONS OF MATHEMATICS 110 · UNIT A · 25 QUESTIONS

Numerical and Logical 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 greatest common factor of 12 and 18 is**

ANSWER _____

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2 **The least common multiple of 4 and 6 is**

ANSWER _____

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3 **The next term in the pattern 5, 9, 13, 17, 21 is**

ANSWER _____

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4 **The number 29 is**

A composite

B prime

C even

D a perfect square

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5 **A conjecture is a statement believed true but**

A not yet proven

B proven false

C always false

D based on one number only

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6 **A counterexample is an example that**

A proves every statement

B supports a statement only

C disproves a general statement

D is always false

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7 **A statement and its contrapositive always have the**

A same truth value

B opposite truth value

C same numbers

D opposite numbers

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8 Deductive reasoning moves from

Question 8

Deductive reasoning moves from

A) specific examples to a general conclusion

B) a general rule to a specific case

C) a guess to a proof

D) a diagram to a number

- **A** specific examples to a general conclusion
- **B** a general rule to a specific case
- **C** a guess to a proof
- **D** a diagram to a number

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9 Inductive reasoning moves from

- **A** specific examples to a general conclusion
- **B** a general rule to a specific case
- **C** a false statement to a true statement
- **D** numbers to letters only

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10 **The converse of the statement if P then Q is**

- **A** if not P then not Q
- **B** if not Q then not P
- **C** P and Q
- **D** if Q then P

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11 **The greatest common factor of 20 and 30 is**

ANSWER _____

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12 **The least common multiple of 6 and 8 is**

ANSWER _____

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13 **The next term in the pattern 3, 6, 11, 18, 27 is**

A 36

B 38

C 34

D 32

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14 **The number 51 is**

A prime

B even

C composite

D a perfect square

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15 **The greatest common factor of 15 and 25 is**

ANSWER _____

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16 **The least common multiple of 5 and 10 is**

ANSWER _____

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17 **The next term in the pattern 2, 5, 10, 17, 26 is**

A 35

B 33

C 37

D 41

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18 **The greatest common factor of 24 and 36 is**

ANSWER _____

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19 **The least common multiple of 4 and 10 is**

ANSWER _____

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20 **The next term in the pattern 4, 8, 12, 16, 20 is**

ANSWER _____

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21 **The greatest common factor of 14 and 21 is**

ANSWER _____

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22 **The least common multiple of 6 and 9 is**

ANSWER _____

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23 **The next term in the pattern 6, 11, 16, 21, 26 is**

ANSWER _____

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24 **The greatest common factor of 16 and 24 is**

ANSWER _____

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25 **The least common multiple of 8 and 10 is**

ANSWER _____

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ANSWER KEY

1. 6
2. 12
3. 25
4. B
5. A
6. C
7. A
8. B
9. A
10. D
11. 10
12. 24
13. B
14. C
15. 5
16. 10
17. C
18. 12
19. 20
20. 24
21. 7
22. 18
23. 31
24. 8
25. 40

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