Spatial Reasoning, Puzzles and Games — Practice Test

Saskatchewan Workplace and Apprenticeship Mathematics 10 • 25 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 **In a 3 by 3 magic square using the numbers 1 to 9, each row sums to 15. If a row contains 8 and 4, the missing number that makes the row sum 15 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The number of squares in a 6 by 6 grid, counting all sizes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A triangular arrangement has 15 dots in total. The number of dots in the bottom row is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A net made of six squares joined edge to edge, with four in a row and one square attached above and one below the row, folds into**

- A a cube
- B a triangular prism
- C a square pyramid
- D a cylinder

Understand It with Pulse | Flag a mistake

5 **A pattern starts 8, 11, 14. The term in position 5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **In a 3 by 3 magic square using the numbers 1 to 9, each row sums to 15. If a row contains 8 and 5, the missing number that makes the row sum 15 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The number of squares in a 8 by 8 grid, counting all sizes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A pattern starts 4, 7, 10. The term in position 7 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A cube has side length 5 cm. The number of small unit cubes in it is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The number of squares in a 7 by 7 grid, counting all sizes, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A cube has side length 4 cm. The number of small unit cubes in it is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A pattern starts 2, 6, 10. The term in position 5 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A triangular arrangement has 28 dots in total. The number of dots in the bottom row is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **In a 3 by 3 magic square using the numbers 1 to 9, each row sums to 15. If a row contains 8 and 3, the missing number that makes the row sum 15 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A triangular arrangement has 21 dots in total. The number of dots in the bottom row is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The next number in the sequence 5, 9, 13, 17 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A cube has side length 3 cm. The number of small unit cubes in it is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A pattern grows by 4 each step and starts at 3. The 5th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **The number of dots in the 4th figure of a pattern is 13, and each figure adds 3 dots. The 5th figure has**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A square pattern has side lengths 1, 2, 3, 4. The area of the 5th square is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The sequence 100, 90, 80, 70 decreases by 10 each time. The 6th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A pattern of triangles uses 3, 6, 9 matches. The number of matches for 5 triangles is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **In a 3 by 3 magic square using the numbers 1 to 9, the numbers in a diagonal also sum to 15. If a diagonal contains 2 and 6, the missing number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Counting squares of every size in a 5 by 5 grid gives**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A triangular arrangement has 10 dots in the bottom row. The total number of dots is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	3	**10.**	140	**19.**	16
2.	91	**11.**	64	**20.**	25
3.	5	**12.**	18	**21.**	50
4.	A	**13.**	7	**22.**	15
5.	20	**14.**	4	**23.**	7
6.	2	**15.**	6	**24.**	55
7.	204	**16.**	21	**25.**	55
8.	22	**17.**	27		
9.	125	**18.**	19		

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