MANITOBA ESSENTIAL MATHEMATICS 30S · UNIT C · 25 QUESTIONS

Three-Dimensional Geometry — 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 **On a map, 1 unit represents 25 units in real life. A map distance of 5 represents a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The right triangle has base 10 and height 2 as labelled. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A rectangle has length 9 and width 2. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A rectangle has length 11 and width 5. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A triangle has base 8 and height 7. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Use pi equals 3.14. A circle has radius 5. Its area, to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A rectangular prism has length 3, width 5, and height 6. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **On a map, 1 unit represents 40 units in real life. A map distance of 8 represents a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The right triangle has base 12 and height 3 as labelled. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A rectangle has length 11 and width 5. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A rectangle has length 13 and width 8. Its perimeter is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A triangle has base 10 and height 8. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **Use pi equals 3.14. A circle has radius 6. Its area, to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A rectangular prism has length 4, width 7, and height 4. Its volume is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **On a map, 1 unit represents 15 units in real life. A map distance of 3 represents a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **Two lines that never meet are**

A perpendicular

B intersecting

C parallel

D coincident

Understand It with Pulse | Flag a mistake

17 **Two lines that meet at a right angle are**

A parallel

B coincident

C skew

D perpendicular

Understand It with Pulse | Flag a mistake

18 **The point where a graph crosses the y axis is the**

A y intercept

B x intercept

C vertex

D origin

Understand It with Pulse | Flag a mistake

19 **The point where a graph crosses the x axis is the**

A y intercept

B x intercept

C vertex

D origin

Understand It with Pulse | Flag a mistake

20 **The highest or lowest point of a parabola is the**

- A intercept
- B axis
- C vertex
- D root

Understand It with Pulse | Flag a mistake

21 **The line that divides a parabola into two equal halves is the**

- A directrix
- B asymptote
- C tangent
- D axis of symmetry

Understand It with Pulse | Flag a mistake

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

A equilateral

B isosceles

C scalene

D right

Understand It with Pulse | Flag a mistake

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

A equilateral

B isosceles

C scalene

D obtuse

Understand It with Pulse | Flag a mistake

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

A isosceles

B equilateral

C scalene

D right

Understand It with Pulse | Flag a mistake

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

A adjacent

B opposite

C leg

D hypotenuse

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	125	**10.**	55	**19.**	B
2.	10	**11.**	42	**20.**	C
3.	18	**12.**	40	**21.**	D
4.	32	**13.**	113.04	**22.**	A
5.	28	**14.**	112	**23.**	B
6.	78.5	**15.**	45	**24.**	C
7.	90	**16.**	C	**25.**	D
8.	320	**17.**	D		
9.	18	**18.**	A		

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