Linear Systems, Trigonometry and Measurement — Practice Test

Yukon Foundations of Mathematics and Pre-Calculus 10 (MFMP-10) • 10 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 right triangle, an acute angle has cosine $\frac{1}{2}$. The angle, in degrees, is**

- A 30
- B 60
- C 45
- D 90

Understand It with Pulse | Flag a mistake

2 **A ladder 13 metres long leans against a wall, with its foot 5 metres from the wall. The height reached on the wall, in metres, is ____.**

ANSWER _____

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3 A ramp rises 3 metres over a horizontal distance of 4 metres. The length of the ramp, in metres, is ____.

ANSWER _____

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4 The volume of a cube with side length 5 cm, in cm^3, is ____.

ANSWER _____

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5 The volume of a cylinder with radius 2 cm and height 6 cm, using $\pi = 3.14$, in cm^3, is closest to

A 37.68

B 75.36

C 150.72

D 25.12

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6 **The volume of 2.5 litres, in millilitres, is ____.**

ANSWER _____

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7 **The length of 8 feet, in inches, is ____.**

ANSWER _____

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8 **The surface area of a cube with side length 3 cm, in cm², is ____.**

ANSWER _____

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9 **In a right triangle, the sine of an acute angle is the ratio of**

- **A** The adjacent side to the hypotenuse
- **B** The opposite side to the hypotenuse
- **C** The opposite side to the adjacent side
- **D** The hypotenuse to the opposite side

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10 **The lines y = 4x + 2 and y = 4x + 2 are the same line. The system formed by the two lines has**

- **A** Exactly one solution
- **B** No solution
- **C** Infinitely many solutions
- **D** Two solutions

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ANSWER KEY

1.	B	**5.**	B	**9.**	B
2.	12	**6.**	2500	**10.**	C
3.	5	**7.**	96		
4.	125	**8.**	54		

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