NEWFOUNDLAND AND LABRADOR MATHEMATICS 2202 · UNIT B · 10 QUESTIONS

Trigonometry and Scale Diagrams — 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 **Think about the property. A scale diagram keeps the shape of the original but changes its**

- A angles
- B size
- C shape
- D number of sides

Understand It with Pulse | Flag a mistake

2 **A 3 m pole casts a 4 m shadow. At the same time, a tree casts a 16 m shadow. The height of the tree, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A right triangle has legs 6 and 8. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A rectangle measures 4 by 6 cm on a scale drawing with scale factor 3. The perimeter of the real rectangle, in centimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **In a right triangle, the hypotenuse is 16 and an angle is 60°. The opposite side, to one decimal place, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **On a scale drawing, 1 cm represents 2 m. A length of 8 cm on the drawing represents, in metres, a real length of**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **From 25 m away, the angle of elevation to the top of a pole is 45°. The height of the pole, to one decimal place, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Apply the statement. The right triangle shown has legs 5 and 12. Its hypotenuse is**

A 13

B 17

C 10

D 60

Understand It with Pulse | Flag a mistake

9 **Consider the statement in general. In a right triangle, sine of an angle equals**

A adjacent ÷ hypotenuse

B opposite ÷ hypotenuse

C opposite ÷ adjacent

D hypotenuse ÷ opposite

Understand It with Pulse | Flag a mistake

10 **A right triangle has hypotenuse 25 and one leg 7. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. 12
3. 10
4. 60
5. 13.9
6. 16
7. 25
8. A
9. B
10. 24

© 2026 Brett Robbins. All Rights Reserved.