PRINCE EDWARD ISLAND APPRENTICESHIP AND WORKPLACE MATHEMATICS 10 · UNIT B · 25 QUESTIONS

# Pythagorean Theorem and Trigonometry — 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 **A ladder reaches 4 metres up a wall and its base is 3 metres from the wall. The ladder length in metres is**

ANSWER _____

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2 **A right triangle has hypotenuse 5 metres and one side 4 metres. The missing side in metres is**

ANSWER _____

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3 **In workplace triangles, what is the main purpose or meaning of diagonal?**

- A upright side of a triangle
- B flat side of a triangle
- C longest side of a right triangle
- D line across a rectangle corner to corner

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4 **In workplace triangles, what is the main purpose or meaning of horizontal side?**

- A longest side of a right triangle
- B angle of 90 degrees
- C side forming the right angle
- D flat side of a triangle

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5 **In workplace triangles, what is the main purpose or meaning of hypotenuse?**

- A angle of 90 degrees
- B longest side of a right triangle
- C side forming the right angle
- D relates sides of a right triangle

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6 **In workplace triangles, what is the main purpose or meaning of ladder problem?**

- A line across a rectangle corner to corner
- B real life right triangle use
- C upright side of a triangle
- D flat side of a triangle

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**7** **In workplace triangles, what is the main purpose or meaning of leg?**

- A relates sides of a right triangle
- B side forming the right angle
- C number × itself
- D shape with three sides

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**8** **In workplace triangles, what is the main purpose or meaning of Pythagorean theorem?**

- A number × itself
- B shape with three sides
- C real life right triangle use
- D relates sides of a right triangle

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9 **In workplace triangles, what is the main purpose or meaning of right angle?**

- A side forming the right angle
- B relates sides of a right triangle
- C number × itself
- D angle of 90 degrees

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10 **In workplace triangles, what is the main purpose or meaning of square root?**

- A shape with three sides
- B number × itself
- C real life right triangle use
- D line across a rectangle corner to corner

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11 **In workplace triangles, what is the main purpose or meaning of triangle?**

A real life right triangle use

B line across a rectangle corner to corner

C upright side of a triangle

D shape with three sides

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12 **In workplace triangles, what is the main purpose or meaning of vertical side?**

A flat side of a triangle

B upright side of a triangle

C longest side of a right triangle

D angle of 90 degrees

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13 **In workplace triangles, which term matches this description: angle of 90 degrees?**

- A leg
- B Pythagorean theorem
- C right angle
- D square root

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14 **In workplace triangles, which term matches this description: flat side of a triangle?**

- A hypotenuse
- B right angle
- C horizontal side
- D leg

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15 **In workplace triangles, which term matches this description: line across a rectangle corner to corner?**

- A vertical side
- B horizontal side
- C diagonal
- D hypotenuse

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16 **In workplace triangles, which term matches this description: longest side of a right triangle?**

- A hypotenuse
- B right angle
- C leg
- D Pythagorean theorem

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17 **In workplace triangles, which term matches this description: number multiplied by itself?**

- A square root
- B triangle
- C ladder problem
- D diagonal

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18 **In workplace triangles, which term matches this description: real life right triangle use?**

- A ladder problem
- B diagonal
- C vertical side
- D horizontal side

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19 **In workplace triangles, which term matches this description: relates sides of a right triangle?**

- A square root
- B triangle
- C Pythagorean theorem
- D ladder problem

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20 **In workplace triangles, which term matches this description: shape with three sides?**

- A ladder problem
- B diagonal
- C triangle
- D vertical side

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21 **In workplace triangles, which term matches this description: side forming the right angle?**

- A leg
- B Pythagorean theorem
- C square root
- D triangle

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22 **A ladder reaches 8 metres up a wall and its base is 6 metres from the wall. The ladder length in metres is**

ANSWER _____

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23 **A right triangle has hypotenuse 10 metres and one side 8 metres. The missing side in metres is**

ANSWER _____

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24 **A ladder reaches 12 metres up a wall and its base is 5 metres from the wall. The ladder length in metres is**

ANSWER _____

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25 **A right triangle has hypotenuse 13 metres and one side 12 metres. The missing side in metres is**

ANSWER _____

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# ANSWER KEY

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

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