RIGHT TRIANGLES AND TRIGONOMETRY - PRACTICE TEST | NEW BRUNSWICK FINANCIAL AND WORKPLACE MATHEMATICS 120 · UNIT A · 25 QUESTIONS

Right Triangles 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 right triangle has legs 3 and 4. The length of the hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A right triangle has legs 6 and 8. The length of the hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A right triangle has legs 5 and 12. The length of the hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A right triangle has legs 9 and 40. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **In a right triangle, the two shorter sides are 6 and 8. The longest side is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A rectangle is 5 metres long and 12 metres wide. Its diagonal, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The hypotenuse of a right triangle with legs 11 and 60 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A right triangle has legs of length 15 and 20. The hypotenuse has length**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A right triangle has hypotenuse 5 and one leg 3. The length of the other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A right triangle has hypotenuse 10 and one leg 6. The length of the other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A right triangle has hypotenuse 13 and one leg 5. The length of the other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A right triangle has hypotenuse 26 and one leg 10. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **The hypotenuse of a right triangle is 37 and one leg is 12. The length of the remaining leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A ladder 25 metres long leans against a wall and reaches 24 metres up. Its foot is, in metres, from the wall**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **In a right triangle, the hypotenuse is 65 and one leg is 25. The other leg has length**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A rectangle has diagonal 17 centimetres and one side 8 centimetres. The other side, in centimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **In a right triangle the side opposite angle A is 3 and the side adjacent to angle A is 4. tan A to two decimal places is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **In a right triangle the side opposite angle A is 5 and the side adjacent to angle A is 12. tan A to two decimal places is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **In a right triangle the side opposite angle A is 8 and the side adjacent to angle A is 15. tan A to two decimal places is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **In a right triangle, the side opposite angle A is 9 and the side adjacent is 12. The tangent of A, to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A slope rises 5 metres over a run of 12 metres. The tangent of the angle of elevation, to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **For angle A in a right triangle, sin A is 0.6 and cos A is 0.8. The value of tan A is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A ramp makes an angle with the ground whose tangent is 0.25. The ramp rises 1 metre over a run of, in metres,**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **In a right triangle, angle A has opposite side 20 and hypotenuse 25. The value of sin A is**

ANSWER

Understand It with Pulse | Flag a mistake

25 **In a right triangle the side opposite angle A is 3 and the hypotenuse is 5. sin A to two decimal places is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	5	**10.**	8	**19.**	0.53
2.	10	**11.**	12	**20.**	0.75
3.	13	**12.**	24	**21.**	0.42
4.	41	**13.**	35	**22.**	0.75
5.	10	**14.**	7	**23.**	4
6.	13	**15.**	60	**24.**	0.8
7.	61	**16.**	15	**25.**	0.60
8.	25	**17.**	0.75		
9.	4	**18.**	0.42		

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