NEWFOUNDLAND AND LABRADOR MATHEMATICS 1202 · 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 right triangle has hypotenuse 13 and one leg 5. The other leg is**



A 13

B 12

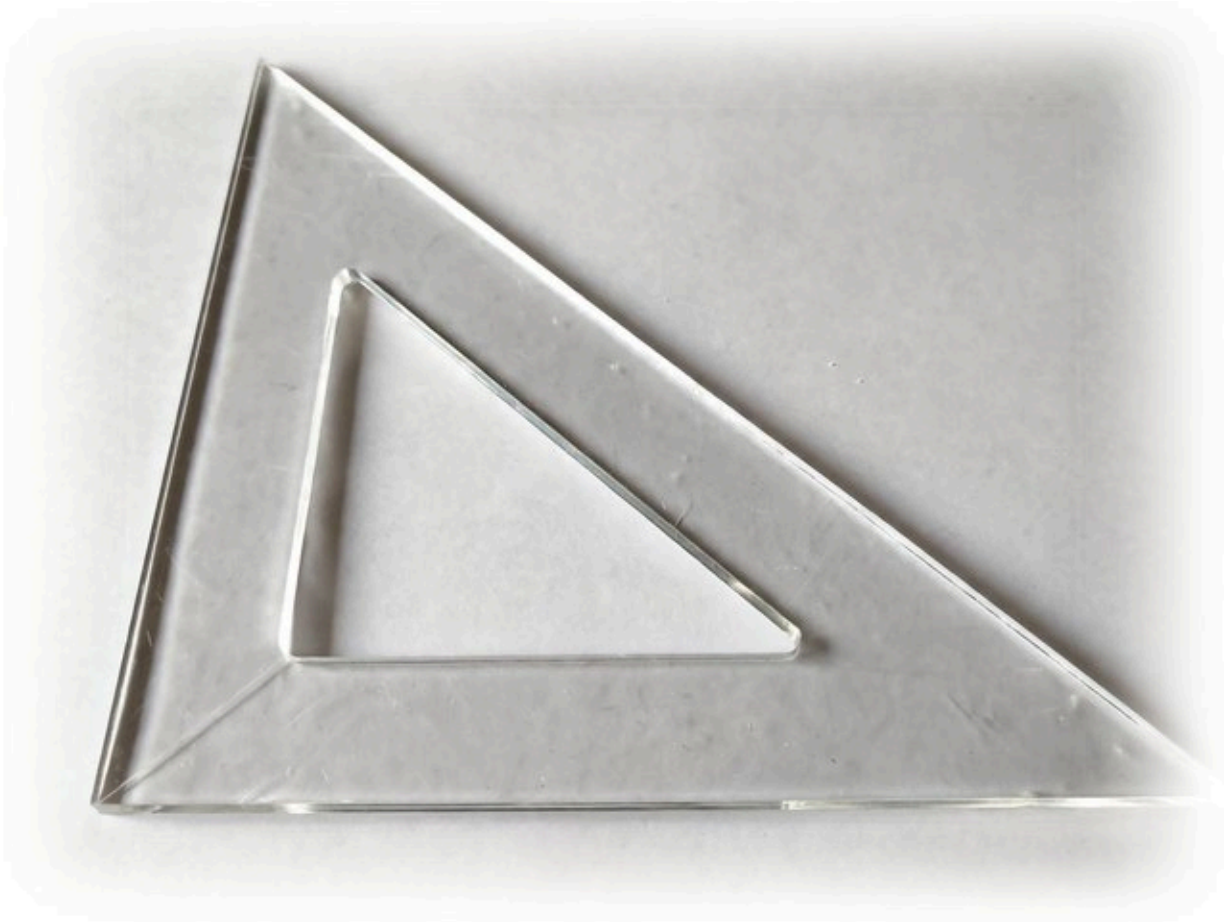
C 11

D 14

Understand It with Pulse

Flag a mistake

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



A 10

B 11

C 9

D 12

Understand It with Pulse | Flag a mistake

3 **In a right triangle the side opposite an angle is 9 and the adjacent side is 12. The tangent of the angle is**

- A 1.25
- B 0.25
- C 0.75
- D 1.75

Understand It with Pulse | Flag a mistake

4 **In a right triangle the side opposite an angle is 12 and the hypotenuse is 20. The sine of the angle is**

ANSWER _____

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5 **The right triangle shown has legs 3 and 4. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6

What is the meaning of cosine?

A opposite over adjacent in a right triangle

B adjacent over hypotenuse in a right triangle

C the acute angle used in a trig ratio

D a problem using a ladder leaning against a wall

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7 **What is the meaning of ladder problem?**



A a problem using a ladder leaning against a wall

B the rise ÷ the run of a ramp

C using shadows and similar triangles to find a height

D a tool that measures an angle of elevation

Understand It with Pulse | Flag a mistake

8 **What is the meaning of leg?**

A opposite over hypotenuse in a right triangle

B adjacent over hypotenuse in a right triangle

C opposite over adjacent in a right triangle

D one of the two shorter sides of a right triangle

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9 **What is the meaning of Pythagorean theorem?**

A a triangle with one right angle

B the squares on the legs sum to the square on the hypotenuse

C one of the two shorter sides of a right triangle

D opposite over hypotenuse in a right triangle

Understand It with Pulse | Flag a mistake

10 **What is the meaning of ramp slope?**



A using shadows and similar triangles to find a height

B the rise ÷ the run of a ramp

C a tool that measures an angle of elevation

D a drawing made to a stated scale

Understand It with Pulse | Flag a mistake

11 **What is the meaning of reference angle?**

A a problem using a ladder leaning against a wall

B the rise ÷ the run of a ramp

C using shadows and similar triangles to find a height

D the acute angle used in a trig ratio

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12 **What is the meaning of right triangle?**

A one of the two shorter sides of a right triangle

B opposite over hypotenuse in a right triangle

C a triangle with one right angle

D adjacent over hypotenuse in a right triangle

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13 **What is the meaning of shadow method?**



A a tool that measures an angle of elevation

B a drawing made to a stated scale

C using shadows and similar triangles to find a height

D the squares on the legs sum to the square on the hypotenuse

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14 **What is the meaning of sine?**

A opposite over hypotenuse in a right triangle

B adjacent over hypotenuse in a right triangle

C opposite over adjacent in a right triangle

D the acute angle used in a trig ratio

Understand It with Pulse | Flag a mistake

15 **What is the meaning of tangent?**

A the acute angle used in a trig ratio

B a problem using a ladder leaning against a wall

C opposite over adjacent in a right triangle

D the rise ÷ the run of a ramp

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16 **Which term matches this description: a problem using a ladder leaning against a wall?**

A ramp slope

B shadow method

C clinometer

D ladder problem

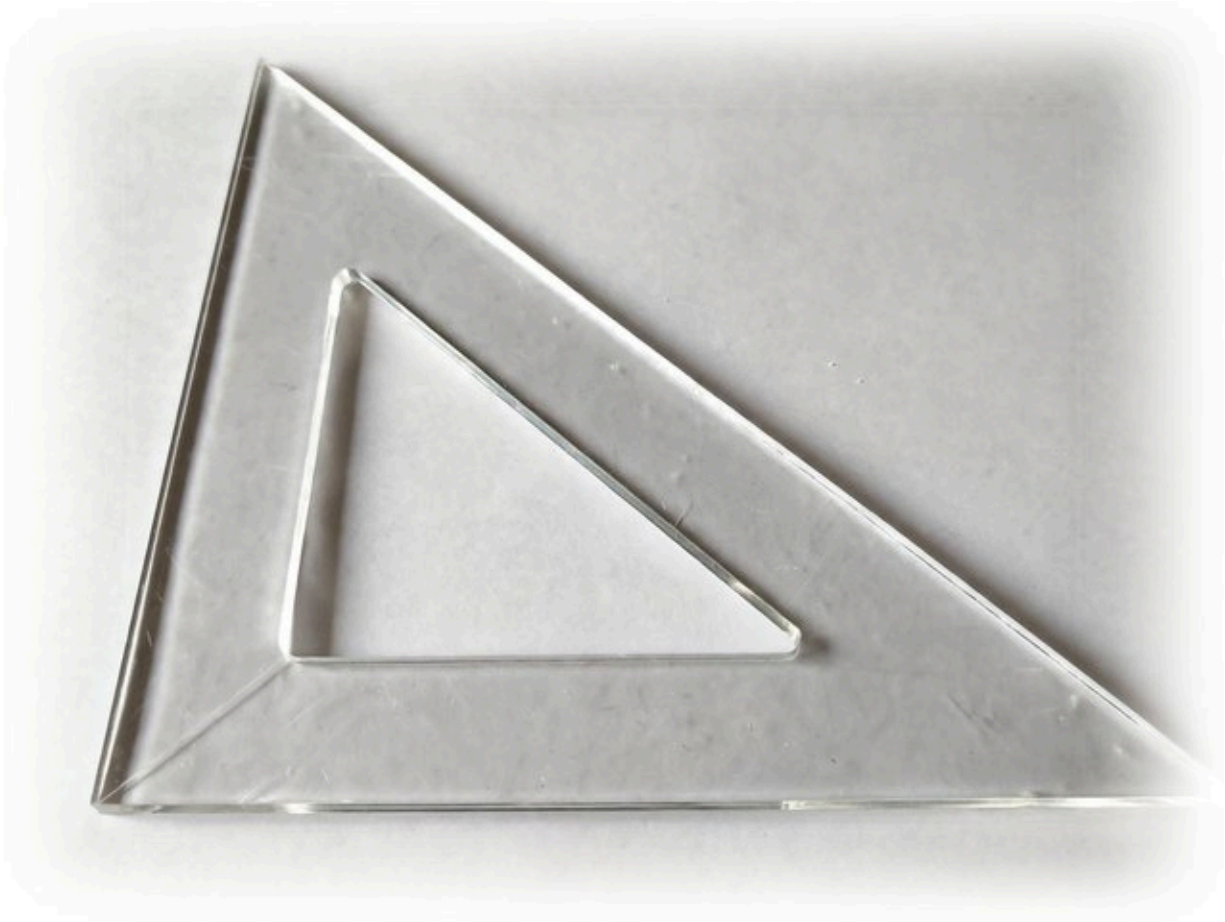
Understand It with Pulse | Flag a mistake

17 **A right triangle has hypotenuse 5 and one leg 3. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A right triangle has legs 8 and 15. Its hypotenuse is**



A 18

B 16

C 19

D 17

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19 **In a right triangle the side opposite an angle is 8 and the adjacent side is 15. The tangent of the angle is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **In a right triangle the side opposite an angle is 3 and the hypotenuse is 5. The sine of the angle is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The right triangle shown has legs 5 and 12. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A right triangle has hypotenuse 15 and one leg 9. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A right triangle has legs 5 and 12. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **In a right triangle the side opposite an angle is 12 and the adjacent side is 16. The tangent of the angle is**

A 0.75

B 1.25

C 0.25

D 1.75

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25 **In a right triangle the side opposite an angle is 9 and the hypotenuse is 15. The sine of the angle is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	B	**10.**	B	**19.**	0.53
2.	A	**11.**	D	**20.**	0.6
3.	C	**12.**	C	**21.**	13
4.	0.6	**13.**	C	**22.**	12
5.	5	**14.**	A	**23.**	13
6.	B	**15.**	C	**24.**	A
7.	A	**16.**	D	**25.**	0.6
8.	D	**17.**	4		
9.	B	**18.**	D		

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