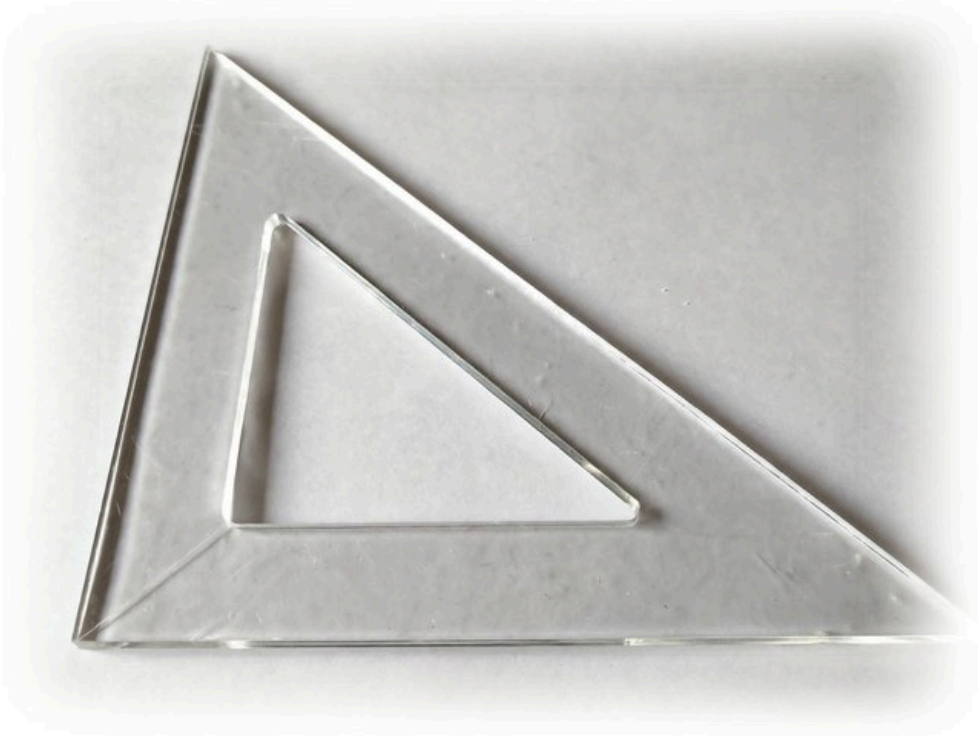
ARKANSAS GEOMETRY · UNIT 3 · 5 QUESTIONS

Trigonometry and Measurement — 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 clear plastic triangular set square ruler lies flat on a plain white surface. In a right triangle, the side opposite an acute angle is 8 and the hypotenuse is 17. The sine of the angle is**



A $\frac{8}{17}$

B $\frac{15}{17}$

C $\frac{8}{15}$

D $\frac{17}{8}$

Understand It with Pulse | Flag a mistake

2 In a right triangle, the side adjacent to an acute angle is 5 and the hypotenuse is 13. The cosine of the angle is

- **A** $\frac{12}{13}$
- **B** $\frac{5}{13}$
- **C** $\frac{5}{12}$
- **D** $\frac{13}{5}$

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3 In a right triangle, the side opposite an acute angle is 12 and the adjacent side is 5. The tangent of the angle is

- **A** $\frac{5}{12}$
- **B** $\frac{13}{12}$
- **C** $\frac{12}{5}$
- **D** $\frac{12}{13}$

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4 **In a 30 60 90 triangle, the hypotenuse is 14. The shortest side is**

- A 28
- B $14\sqrt{3}$
- C $7\sqrt{3}$
- D 7

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5 **A right triangle has legs 20 and 21. Its hypotenuse is**

- A 29
- B 41
- C 31
- D 25

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ANSWER KEY

1. A
2. B
3. C
4. D
5. A

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