ALBERTA MATH 10-3 · UNIT 4 · 5 QUESTIONS

Similar Polygons 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 small rectangle is similar to a larger rectangle. A width of 5 cm in the small rectangle corresponds to a width of 20 cm in the larger rectangle. The scale factor from the small rectangle to the larger rectangle is**

- **A** 4
- **B** $\frac{1}{4}$
- **C** 15
- **D** 25

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2 **A right triangle has legs of 8 m and 15 m. The length of the hypotenuse is**

- **A** 12 m
- **B** 17 m
- **C** 23 m
- **D** 289 m

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3 **In triangle ABC shown, side BC has length 9 cm, side AC has length 12 cm, and side AB has length 15 cm. The value of sin A is**

- **A** $\frac{4}{5}$
- **B** $\frac{3}{4}$
- **C** $\frac{3}{5}$
- **D** $\frac{5}{3}$

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4 **On a map with a scale of 1:50000, two campgrounds are 6 cm apart. The actual distance between the campgrounds is**

A 0.3 km

B 30 km

C 300 km

D 3.0 km

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5 **A single slice of pepperoni pizza on a plain white plate, seen from above at a slight angle, triangular slice with point and curved crust edge, melted cheese and pepperoni, large in frame, no people. The angle of depression of an object, as seen from a point above it, is**



A The angle measured downward from the horizontal to the line of sight

B The angle measured upward from the horizontal to the line of sight

C The angle between the line of sight and the vertical

D The angle between the object and the ground

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ANSWER KEY

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

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