KENTUCKY GEOMETRY · KENTUCKY

Kentucky Geometry

Practice Test

Unit 3: Trigonometry and Measurement

10 Questions

Original practice test based on the Kentucky curriculum. Work through each question, then check your answers at the end.

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.

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Question 1

In a triangle, angle A measures $30°$, side $a = 6$, and angle B measures $45°$. Side b, to one decimal place, is about

A) 8.5

B) 12

C) 6

D) 4.2

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Question 2

In a triangle, two sides measure 8 and 10 with included angle $90°$. The third side, to one decimal place, is about

A) 2

B) 12.8

C) 18

D) 6

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Question 3

A triangle has two sides of lengths 6 and 8 with included angle $90°$. Its area is

A) 48

B) 14

C) 24

D) 12

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Question 4

A rectangular pyramid has a base of 6 by 4 and a height of 9. Its volume is

A) 216

B) 72

C) 144

D) 36

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Question 5

A sphere has radius 2. Its volume, to one decimal place, is about

A) 16.8

B) 50.3

C) 33.5

D) 100.5

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Question 6

A rectangular prism measures 2 by 3 by 6. Its surface area is

A) 36

B) 72

C) 108

D) 18

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Question 7

A right triangle has one side 9 and the other side 12. The hypotenuse is ____

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Question 8

From a point 40 m from the base of a tower, the angle of elevation to the top is 30°. The height of the tower, to one decimal place, in metres, is about ____

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Question 9

A cone has radius 3 and height 10. Its volume, to one decimal place, is about ____

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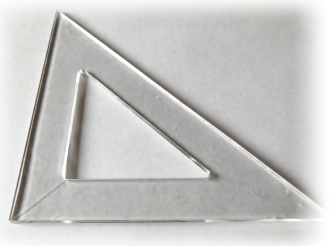

Question 10

A triangle has base 12 and height 5. Its area is ____

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ANSWER KEY

1. A
2. B
3. C
4. B
5. C
6. B
7. 15
8. 23.1
9. 94.2
10. 30

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