ARIZONA GEOMETRY · UNIT 1 · 10 QUESTIONS

Congruence and Similarity — 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 **Two similar triangles have areas 16 and 64. A side of the smaller triangle is 6. The corresponding side of the larger triangle is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A triangle has two sides of lengths 8 and 15. The smallest possible whole number length of the third side is ____**

ANSWER _____

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3 **An isosceles triangle has base angles of 72° each. The vertex angle measures**

A 36°

B 72°

C 108°

D 144°

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4 **The remote interior angles of a triangle measure 45° and 55°. The exterior angle at the third vertex measures**

A 100°

B 80°

C 45°

D 55°

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5 **In a triangle, a midsegment measures 15. The parallel base measures**

- A 7.5
- B 15
- C 30
- D 45

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6 **Two similar triangles have corresponding sides 9 and 27. Another side of the smaller triangle is 4. The corresponding side is**

- A 12
- B 8
- C 36
- D 7

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7 **Under the translation (x - 3, y + 4), the point (9, -1) maps to**

- A (6, 3)
- B (12, 3)
- C (6, -5)
- D (12, -5)

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8 **One triangle has angles 40° and 80°. Another triangle has angles 40° and 70°. The triangles are**

- A similar by AA
- B similar by SSS
- C not similar
- D congruent

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9 **Two similar figures have a linear scale factor of 3:2. The smaller figure has area 20. The larger area is**

- A 30
- B 45
- C 80
- D 13.33

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10 **A figure has perimeter 60. Under a dilation with scale factor 1.5, the perimeter of the image is**

- A 40
- B 90
- C 120
- D 30

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ANSWER KEY

1.	12	**5.**	C	**9.**	B
2.	8	**6.**	A	**10.**	B
3.	A	**7.**	A		
4.	A	**8.**	C		

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