ALASKA 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 **In a triangle, a midsegment is parallel to a base of length 26. The length of the midsegment is**

- A 13
- B 26
- C 52
- D 6.5

Understand It with Pulse | Flag a mistake

2 **Two similar triangles have corresponding sides 7 and 21. Another side of the smaller triangle is 11. The corresponding side of the larger triangle is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Two similar figures have a linear scale factor of 2:5. The larger figure has area 100. The smaller area is**

- A 40
- B 16
- C 250
- D 64

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4 **Two similar triangles have a linear scale factor of 4:7. The larger triangle has perimeter 56. The smaller perimeter is**

- A 32
- B 98
- C 14
- D 56

Understand It with Pulse | Flag a mistake

5 An isosceles triangle has base angles measuring 65° each. The vertex angle measures

- A 65°
- B 115°
- C 50°
- D 130°

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6 The remote interior angles of a triangle measure 38° and 72°. The exterior angle at the third vertex measures

- A 110°
- B 70°
- C 38°
- D 148°

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7 **Which set of lengths cannot form a triangle?**

- A 5, 7, 10
- B 3, 5, 9
- C 6, 8, 10
- D 4, 9, 12

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8 **Two similar triangles have areas 36 and 144. A side of the larger triangle is 24. The corresponding side of the smaller triangle is**

- A 48
- B 12
- C 6
- D 96

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9 **Under a dilation with scale factor 2.5, a side of length 6 maps to a side of length ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A figure has area 20. Under a dilation with scale factor 3, the area of the image is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**5.**	C	**9.**	15
2.	33	**6.**	A	**10.**	180
3.	B	**7.**	B		
4.	A	**8.**	B		

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