CONGRUENCE AND SIMILARITY - PRACTICE TEST | MISSOURI GEOMETRY · UNIT 1 · 10 QUESTIONS

Congruence and Similarity, 10-question test — 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 corresponding sides 8 and 20. Another side of the smaller triangle is 12. The corresponding side of the larger triangle is ____**



ANSWER

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2 **The point (-5, 2) reflected across the y -axis maps to**

Question 2 diagram and text as printed in the PDF

- **A** (-5, -2)
- **B** (5, -2)
- **C** (2, -5)
- **D** (5, 2)

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3 **The point (3, -2) rotated 180° about the origin maps to**



A (-3, 2)

B (3, 2)

C (-2, 3)

D (2, -3)

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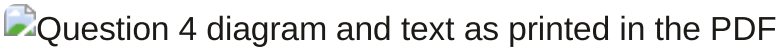
4 **A triangle has two sides of lengths 4 and 9. Which length could be the third side?**



- **A** 4
- **B** 5
- **C** 10
- **D** 13

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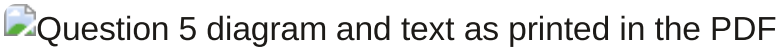
5 **An isosceles triangle has base angles measuring 70° each. The vertex angle measures**



- **A** 70°
- **B** 40°
- **C** 110°
- **D** 20°

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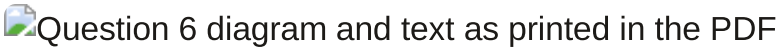
6 **Two similar figures have a linear scale factor of 2:3. The larger figure has area 45. The smaller area is**



- **A** 30
- **B** 67.5
- **C** 20
- **D** 10

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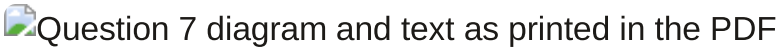
7 **A side of length 6 maps to a side of length 18 under a dilation. The scale factor is ____**



ANSWER _____

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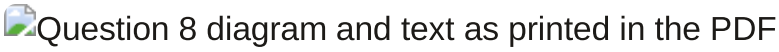
8 **Triangle ABC is congruent to triangle XYZ, with AB corresponding to XY. If AB = 8, then XY equals**


Question 8 diagram and text as printed in the PDF

- **A** 16
- **B** 4
- **C** 8
- **D** 12

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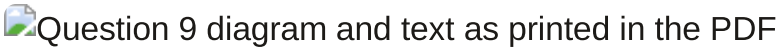
9 **The remote interior angles of a triangle measure 65° and 45°. The exterior angle at the third vertex measures**


Question 9 diagram and text as printed in the PDF

- **A** 20°
- **B** 110°
- **C** 65°
- **D** 155°

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10 **A figure has area 18. Under a dilation with scale factor 2, the area of the image is _____**



ANSWER _____

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ANSWER KEY

1. 30
2. D
3. A
4. C
5. B
6. C
7. 3
8. C
9. B
10. 72

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