ARKANSAS 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 **Under a dilation centered at the origin with scale factor $\frac{1}{2}$, the point (10, 6) maps to**



A (20, 12)

B (5, 12)

C (10, 3)

D (5, 3)

Understand It with Pulse | Flag a mistake

2 **Under a reflection across the y axis, the point (-4, 7) maps to**



A (4, 7)

B (-4, -7)

C (4, -7)

D (-7, 4)

Understand It with Pulse | Flag a mistake

3 **Under a rotation of 180° about the origin, the point (5, -2) maps to**

A (5, 2)

B (-5, 2)

C (-2, 5)

D (2, -5)

Understand It with Pulse | Flag a mistake

4 **The sum of the interior angles of an octagon is**

A 1080°

B 900°

C 1260°

D 720°

Understand It with Pulse | Flag a mistake

5 **Each exterior angle of a regular hexagon measures**

A 120°

B 60°

C 90°

D 30°

Understand It with Pulse | Flag a mistake

6 **In a parallelogram, opposite sides are**

A Perpendicular

B Congruent

C Unequal

D Parallel only

Understand It with Pulse | Flag a mistake

7 **A rectangle has length 14 and width 9. Its perimeter is**

- A 126
- B 23
- C 92
- D 46

Understand It with Pulse | Flag a mistake

8 **A square has a diagonal of length 10 √2. Its side length is**

- A 20
- B 5
- C 10 √2
- D 10

Understand It with Pulse | Flag a mistake

9 **Two similar rectangles have perimeters 30 and 45. A side of the smaller rectangle is 8. The corresponding side, in the larger rectangle, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The centroid of a triangle divides each median in the ratio**

A 1 to 1

B 2 to 1

C 3 to 1

D 1 to 2

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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