VERMONT GEOMETRY · VERMONT

# Vermont Geometry

## Practice Test

### Unit 1: Congruence and Similarity

5 Questions

Original practice test based on the Vermont 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.

© 2026 Brett Robbins. All Rights Reserved.



Question 1

Two triangles have two pairs of corresponding angles equal, and a pair of nonincluded sides equal. The congruence criterion is

A) SSS

B) AAS

C) ASA

D) HL

Understand It with Pulse

Flag a mistake

Question 2

One triangle has angles 40° and 70°. Another triangle has angles 40° and 70°. The triangles are similar by

A) SSS

B) SAS

C) AA

D) HL

Understand It with Pulse

Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

Question 3

Under a dilation centered at the origin with scale factor $0.5$, the point $(8,\ 6)$ maps to

A) $(16,\ 12)$

B) $(4,\ 3)$

C) $(8,\ 3)$

D) $(4,\ 6)$

Understand It with Pulse | Flag a mistake

Question 4

In a triangle, a midsegment is parallel to a base of length $22$. The length of the midsegment is

A) $22$

B) $44$

C) $11$

D) $5.5$

Understand It with Pulse | Flag a mistake

Question 5

Two similar triangles have a linear scale factor of $3:4$. The smaller triangle has perimeter $27$. The larger perimeter is

A) $20.25$

B) $48$

C) $36$

D) $81$

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

# ANSWER KEY

1. B
2. C
3. B
4. C
5. C

© 2026 Brett Robbins. All Rights Reserved.