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✨ Grade 10 Maths — Similarity & Scale Factors ✨

Name: Demo **Date:** 26/11/2026

1. A shape is enlarged by a scale factor of 2. Its original area is 4 cm². Find the new area (cm²).

2. Two triangles are similar. Matching sides are 6 cm and 8 cm. Another side of the smaller triangle is 21 cm. Find the matching side of the larger triangle (cm).

3. Two triangles are similar. Matching sides are 12 cm and 16 cm. Another side of the smaller triangle is 24 cm. Find the matching side of the larger triangle (cm).

4. A shape is enlarged by a scale factor of 2. Its original area is 6 cm². Find the new area (cm²).

5. Two triangles are similar. Matching sides are 2 cm and 6 cm. Another side of the smaller triangle is 8 cm. Find the matching side of the larger triangle (cm).

6. A shape is enlarged by a scale factor of 2. Its original area is 24 cm². Find the new area (cm²).

7. Two triangles are similar. Matching sides are 6 cm and 10 cm. Another side of the smaller triangle is 21 cm. Find the matching side of the larger triangle (cm).

8. Two triangles are similar. Matching sides are 8 cm and 20 cm. Another side of the smaller triangle is 6 cm. Find the matching side of the larger triangle (cm).

9. Two triangles are similar. Matching sides are 5 cm and 10 cm. Another side of the smaller triangle is 4 cm. Find the matching side of the larger triangle (cm).

10. A shape is enlarged by a scale factor of 2. Its original area is 16 cm². Find the new area (cm²).