Varied Fluency Step 5: Angles in a Triangle

National Curriculum Objectives:

Mathematics Year 6: (6G3a) <u>Draw 2-D shapes using given dimensions and angles</u> Mathematics Year 6: (6G2a) <u>Compare and classify geometric shapes based on their</u> <u>properties and sizes</u> Mathematics Year 6: (6G4a) <u>Find unknown angles in any triangles, quadrilaterals, and</u> <u>regular polygons</u>

Differentiation:

Developing Questions to support calculating one missing angle in a triangle (angles given in multiples of 10).

Expected Questions to support calculating up to two missing angles in a triangle (angles given in multiples of 5).

Greater Depth Questions to support calculating up to two missing angles in a triangle (when angles are given in one degree increments).

More <u>Year 6 Properties of Shapes</u> resources.

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Varied Fluency – Angles in a Triangle 1 – Teaching Information



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Varied Fluency – Angles in a Triangle 1 – Year 6 Developing



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Varied Fluency – Angles in a Triangle 1 – Year 6 Expected



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Varied Fluency – Angles in a Triangle 1 – Year 6 Greater Depth

Varied Fluency Angles in a Triangle 1

<u>Developing</u>

1a. C 2a. Right triangle 3a. 90° 4a. B

Expected

5a. A 6a. Right-angled scalene 7a. 70° 8a. B

Greater Depth

9a. B 10a. C, it should be 76° 11a. 90° and 23° 12a. A (only scalene triangle) or C (only triangle with an obtuse angle)

Varied Fluency Angles in a Triangle 1

Developing 1b. B and C 2b. Scalene triangle 3b. 60° 4b. C

Expected 5b. A and B 6b. Isosceles 7b. 90° and 65° 8b. D

<u>Greater Depth</u> 9b. A 10b. B, it should be 100° 11b. 90° and 72° 12b. B (only isosceles triangle) or C (only triangle with a right angle)



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Varied Fluency – Angles in a Triangle 1 ANSWERS