Varied Fluency Step 4: Vertically Opposite Angles

National Curriculum Objectives:

Mathematics Year 6: (6G4b) <u>Recognise angles where they meet at a point,</u> are on a straight line, or are vertically opposite, and find missing angles

Differentiation:

Developing Questions to support their understanding that vertically opposite angles are equal. Includes 4 angles measured to the nearest 10 degrees.

Expected Questions to support their understanding that vertically opposite angles are equal. Includes 4 angles measured to the nearest whole degree; up to 2 angles given per question.

Greater Depth Questions to support their understanding that vertically opposite angles are equal. Includes up to 6 angles measured to the nearest whole degree; up to 2 angles given per question.

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

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Vertically Opposite Angles

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, Varied Fluency – Vertically Opposite Angles – Year 6 Developing

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Varied Fluency – Vertically Opposite Angles – Year 6 Expected

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Developing

1a. a = 60°, b = 120° 2a. 180° 3a. 60° + 120°= 180° 4a. 100°

Expected

5a. a = 56°, b = 124° 6a. 180° 7a. 62° + 118° = 180° 8a. 88°

Greater Depth

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9a. a = 54°, b = 74°, c = 52° 10a. 180° 11a. 123° + 16°+ 41°= 180° 12a. 29°

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Developing 1b. $a = 30^{\circ}$, $b = 150^{\circ}$ 2b. 360° 3b. $70^{\circ} + 70^{\circ} + 110^{\circ} + 110^{\circ} = 360^{\circ}$ 4b. 70°

Expected 5b. a = 94°, b = 86° 6b. 360° 7b. 76° + 76° + 104° + 104° = 360° 8b. 56°

<u>Greater Depth</u> 9b. a = 89°, b = 68°, c = 23° 10b. 360° 11b. 92° + 92° + 42° + 42° + 46° + 46° = 360° 12b. 49°



Varied Fluency – Vertically Opposite Angles ANSWERS