Homework/Extension Step 4: Vertically Opposite Angles

National Curriculum Objectives:

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

Differentiation:

CLASSROOM Secrets

Questions 1, 4 and 7 (Varied Fluency)

Developing Calculating angles using understanding that vertically opposite angles are equal. Includes 4 angles measured to the nearest 10 degrees.

Expected Calculating angles using 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 Calculating angles using 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.

Questions 2, 5 and 8 (Varied Fluency)

Developing Decide whether a statement is true or false when calculating angles. Includes 4 angles measured to the nearest 10 degrees.

Expected Decide whether a statement is true or false when calculating angles. Includes 4 angles measured to the nearest whole degree; up to 2 angles given per question.

Greater Depth Decide whether a statement is true or false when calculating angles. Includes up to 6 angles measured to the nearest whole degree; up to 2 angles given per question.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Decide which statement is correct and explain why when calculating angles. Includes 4 angles measured to the nearest 10 degrees.

Expected Decide which statement is correct and explain why when calculating angles. Includes 4 angles measured to the nearest whole degree; up to 2 angles given per question.

Greater Depth Decide which statement is correct and explain why when calculating angles. 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.

Did you like this resource? Don't forget to <u>review</u> it on our website.

classroomsecrets.co.uk

^{© Classroom Secrets Limited 2019} Homework/Extension – Vertically Opposite Angles – Teaching Information

Vertically Opposite Angles



classroomsecrets.co.uk

© Classroom Secrets Limited 2019 Homework/Extension – Vertically Opposite Angles – Year 6 Developing

CLASSROOM Secrets

Vertically Opposite Angles



classroomsecrets.co.uk

© Classroom Secrets Limited 2019 Homework/Extension – Vertically Opposite Angles – Year 6 Expected

CLASSROOM Secrets

Vertically Opposite Angles



classroomsecrets.co.uk

© Classroom Secrets Limited 2019 Homework/Extension – Vertically Opposite Angles – Year 6 Greater Depth

CLASSROOM Secrets

Homework/Extension Vertically Opposite Angles

Developing

1. A = 60°, b = 140°, c = 150°.

2. A is true, B is false (they add up to 180°), C is true.

3. Hafsa is correct because angles on a straight line add up to 180°.

Expected

4. A = 44°, b = 151°, c = 142°.

5. A is true, B is false (they add up to 106°), C is true.

6. Sean is correct. Steph has subtracted 126 once instead of twice, she has forgotten the vertically opposite angle.

<u>Greater Depth</u>

7. A = 60°, b = 58°, c = 115°, d = 23°, e = 36°, f = 21°.

8. A is true, B is true, C is false (they measure 19° and 33°).

9. Alice is correct because angles on a straight line add up to 180°.



classroomsecrets.co.uk

Homework/Extension – Vertically Opposite Angles ANSWERS