Homework/Extension Step 3: Calculate Angles

National Curriculum Objectives:

Mathematics Year 5: (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:

Questions 1, 4 and 7 (Varied Fluency)

Developing Use knowledge of angles on a straight line to complete number sentences. Angles given in multiples of 10.

Expected Use knowledge of angles on a straight line to complete number sentences. Angles given in multiples of 5.

Greater Depth Use knowledge of angles around a point to complete number sentences. Angles given in exact degrees.

Questions 2, 5 and 8 (Varied Fluency)

Developing Use knowledge of angles in a right angle and on a straight line to calculate one missing angle. Angles given in multiples of 10.

Expected Use knowledge of angles in a right angle, on a straight line and around a point to calculate two missing angles. Angles given in multiples of 5.

Greater Depth Use knowledge of angles in a right angle, on a straight line and around a point to calculate two or more missing angles. Angles given in exact degrees.

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

Developing Identify and explain errors when calculating one missing angle in a straight line. Angles given in multiples of 10.

Expected Identify and explain errors when calculating two missing angles on a straight line. Angles given in multiples of 5.

Greater Depth Identify and explain errors when calculating three missing angles around a point. Angles given in exact degrees.

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

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Homework/Extension - Calculate Angles - Year 6 Expected

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Homework/Extension – Calculate Angles – Year 6 Greater Depth

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Developing



2. $a = 50^{\circ}$, $b = 50^{\circ}$, $c = 20^{\circ}$

3. Mandi is incorrect. A right angle measures 90 degrees, so angles x and y must each measure 45 degrees.

Expected

4. Various answers, for example:



5. a = 35°, b = 65°, c = 25°, d = 55°

6. Terry is incorrect. The angle of a straight line is 180 degrees, so angles x and y must each measure 75 degrees.

Greater Depth

7. Various answers, for example:



8. $a = 90^{\circ}$, $b = 90^{\circ}$, $c = 133^{\circ}$, $d = 42^{\circ}$, $e = 29^{\circ}$, $f = 31^{\circ}$

9. Toby is incorrect. The angles around a point total 360 degrees, so each angle must measure 60 degrees.





Homework/Extension – Calculate Angles ANSWERS