Homework/Extension Step 6: Calculating Angles Around a Point

National Curriculum Objectives:

Mathematics Year 5: (5G4b) Identify angles at a point and one whole turn (total 360)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match degrees and turns. All information given.

Expected Match degrees, right angles and turns. All information given.

Greater Depth Match degrees, right angles and turns. Some information missing.

Questions 2, 5 and 8 (Varied Fluency)

Developing Establish whether a statement is true or false by working out how many degrees there are in a missing angle. Increments of 5° and using 3 angles.

Expected Establish whether a statement is true or false by working out how many degrees there are in a missing angle. Increments of 1° and using 4 angles.

Greater Depth Establish whether a statement is true or false by working out how many degrees there are in a missing angle. Increments of 1° and using 5 angles.

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

Developing Find an error in a set of three instructions, using turns, degrees, clockwise and anti-clockwise.

Expected Find an error in a set of four instructions, using turns, right angles, degrees, clockwise and anti-clockwise.

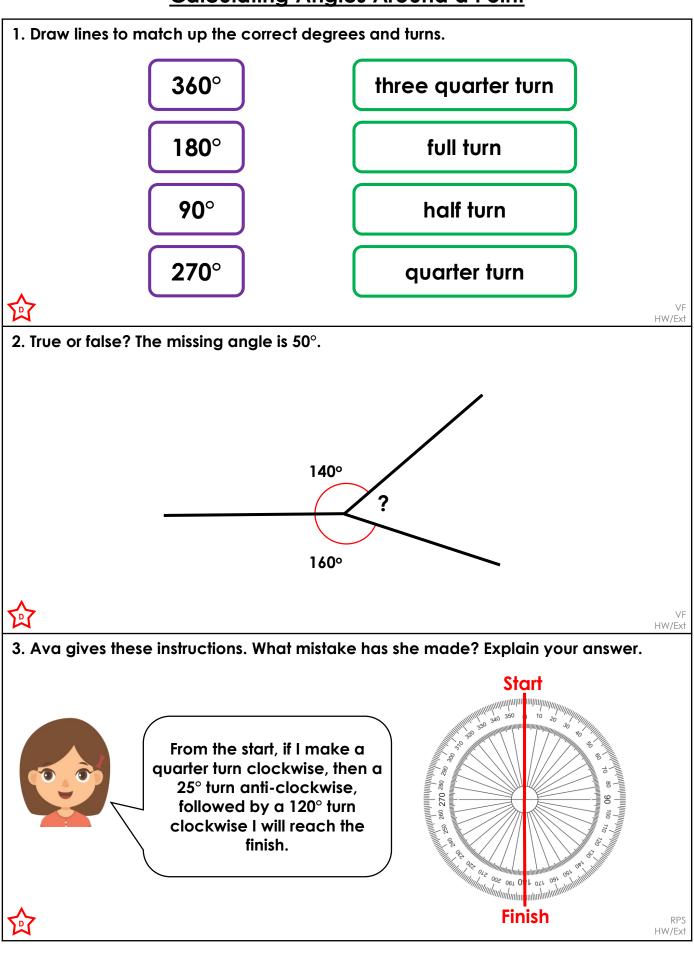
Greater Depth Find an error in a set of five instructions, using turns, right angles, degrees, clockwise and anti-clockwise.

More <u>Year 5 Properties of Shape</u> resources.

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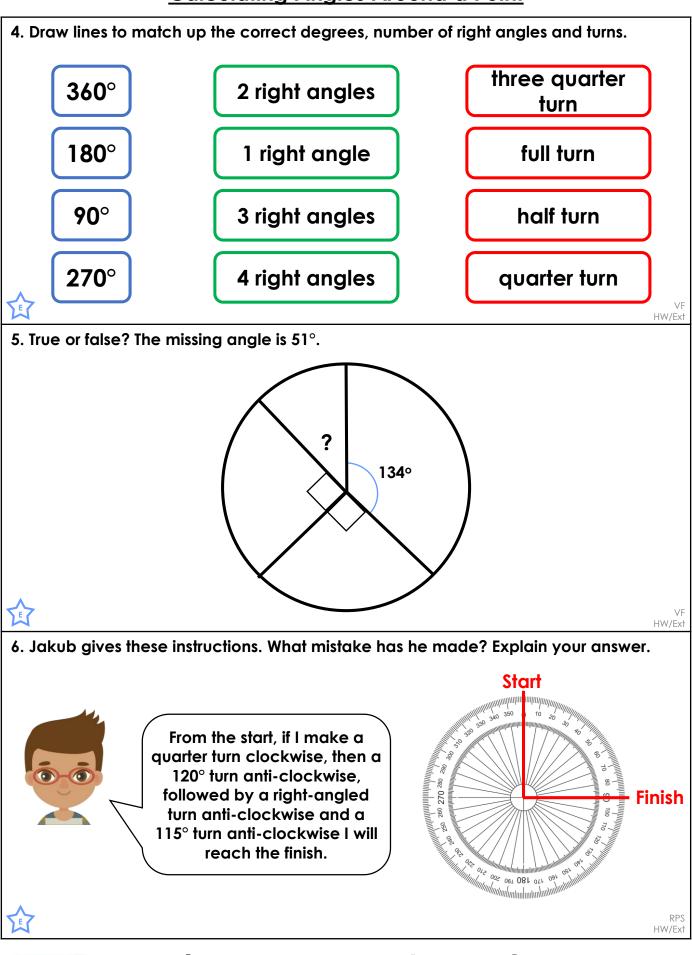
Calculating Angles Around a Point





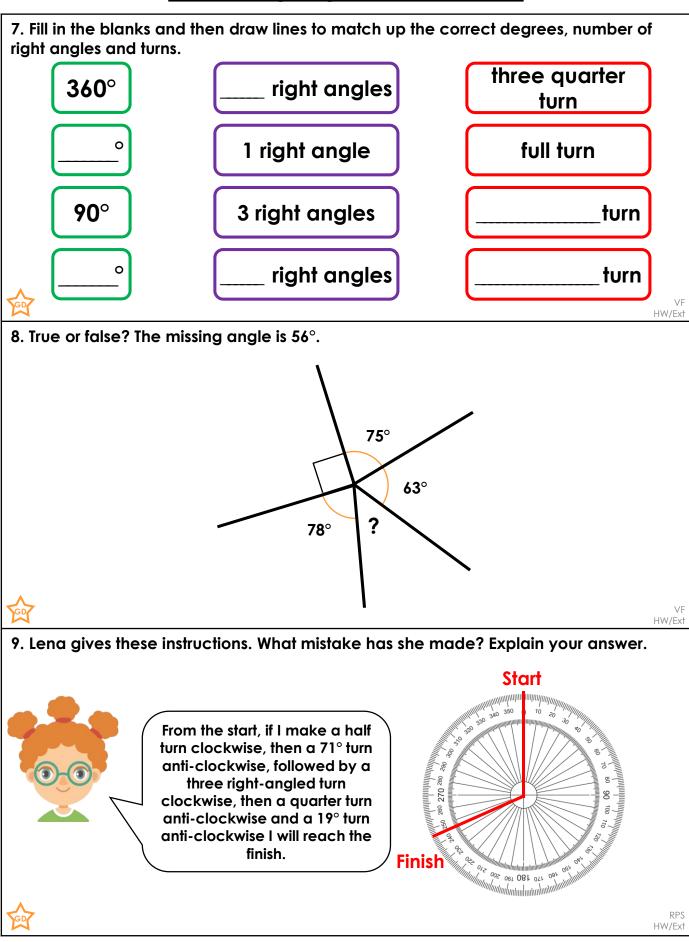
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<u>Homework/Extension</u> Calculating Angles Around a Point

Developing

- 1. 90° quarter turn, 180° half turn, 270° three quarter turn, 360° full turn
- 2. False, the missing angle is 60° .
- 3. The last turn should be 115°, not 120°.

Expected

- 4. 90° 1 right angle quarter turn, 180° 2 right angles half turn, 270° 3 right angles three quarter turn, 360° 4 right angles full turn
- 5. False, the missing angle is 46° .
- 6. The final turn should be 160°, not 115°.

Greater Depth

- 7. 90° 1 right angle <u>quarter</u> turn, <u>180</u>° <u>2</u> right angles <u>half</u> turn, <u>270</u>° 3 right angles three quarter turn, 360° <u>4</u> right angles full turn
- 8. False, the missing angle is 54°.
- 9. The last turn should be 44°, not 19°.

