# <u>Varied Fluency</u> <u>Step 6: Calculating Angles around a Point</u>

### **National Curriculum Objectives:**

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

#### Differentiation:

Developing Questions to support calculating a missing angle around a point. Using 3 angles and increments of  $5^{\circ}$ .

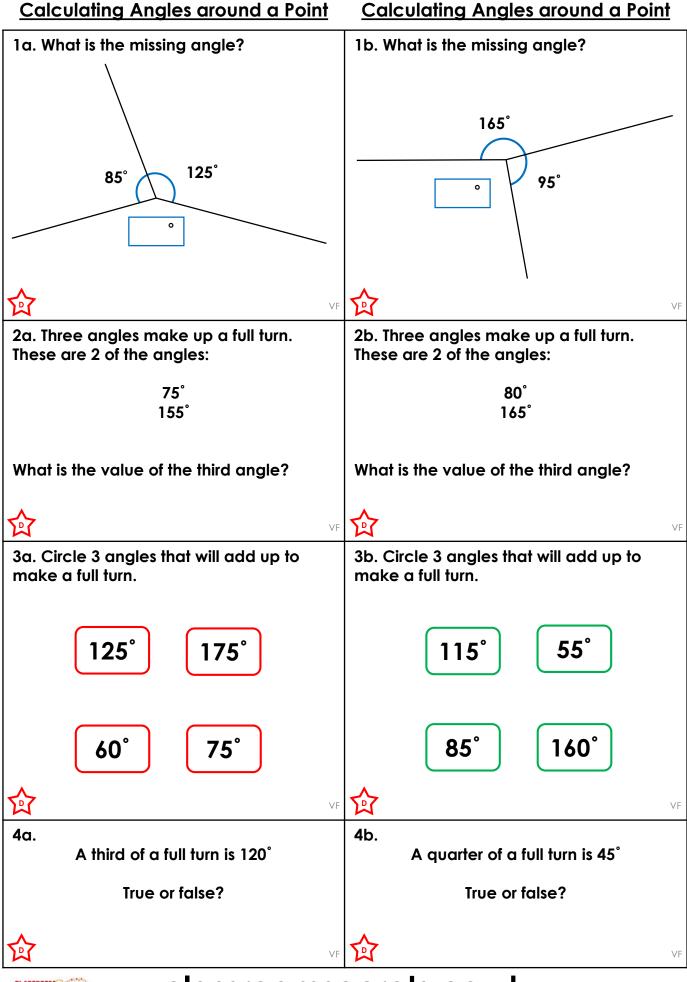
Expected Questions to support calculating a missing angle around a point. Using up to 5 angles and increments of  $1^{\circ}$ .

Greater Depth Questions to support calculating 2 missing angles around a point. Using up to 5 angles and increments of 1°. Some angles are labelled with degrees and clues given to calculate missing angles.

More Year 5 Properties of Shapes resources.

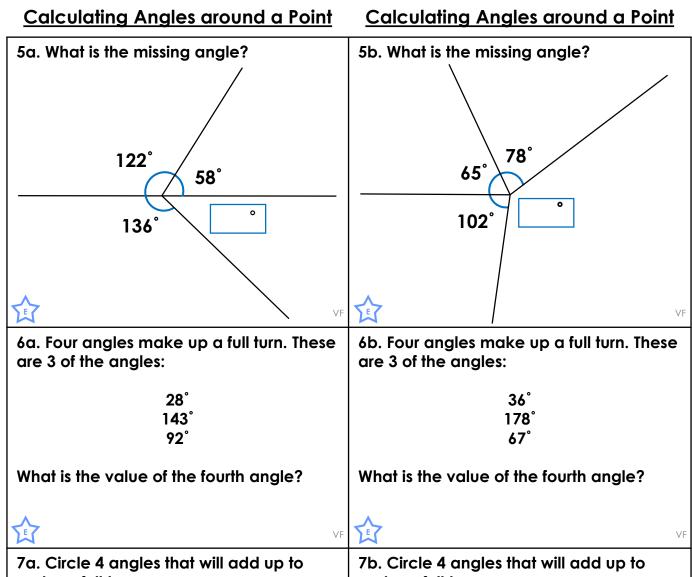
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make a full turn.

**32**°

69°

112°

make a full turn.

59°

136°

**53**°

101°

**78**°

8a.

A sixth of a full turn is 66°

True or false?

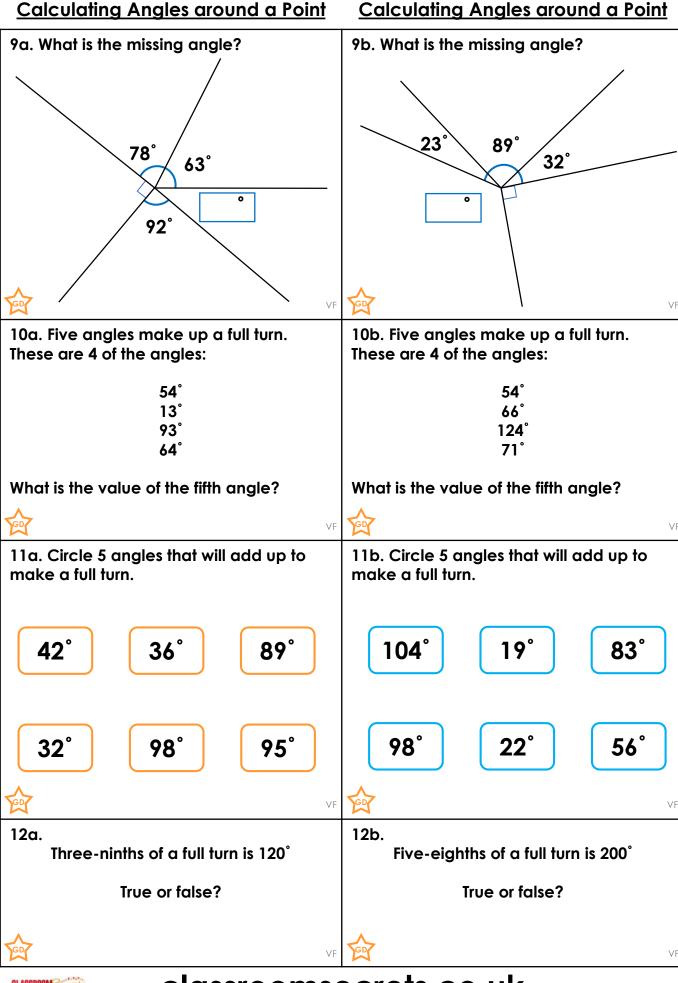
8b.

An eighth of a full turn is 45°

True or false?







## Varied Fluency Calculating Angles around a Point

### <u>Varied Fluency</u> Calculating Angles around a Point

#### **Developing**

1a. 150°

2a. 130°

3a. 60° 125° 175°

4a. True

#### **Expected**

5a. 44°

6a. 97°

7a. 69° 78° 101° 112°

8a. False, it is 60°.

#### **Greater Depth**

9a. 37°

10a. 136°

11a. 36° 42° 89° 95° 98°

12a. True

#### <u>Developing</u>

1b. 100°

2b. 115°

3b. 85° 115° 160°

4b. False, it is 90°.

#### **Expected**

5b. 115°

6b. 79°

7b. 59° 81° 84° 136°

8b. True

#### **Greater Depth**

9b. 126°

10b. 45°

11b. 19° 56° 83° 98° 104°

12b. False, it is 225°