## Varied Fluency <br> Step 5: Angles on a Straight Line

## National Curriculum Objectives:

Mathematics Year 5: (5G4b) Identify angles at a point and one whole turn (total 360 degrees) and angles at a point on a straight line and half a turn (total 180 degrees).

## Differentiation:

Developing Questions to support calculating missing angles on straight lines. All angles are in increments of $5^{\circ}$ and are on a horizontal line. Up to two angles with labelled degrees. Expected Questions to support calculating missing angles on straight lines. All angles are in increments of $1^{\circ}$ and are on a horizontal line. Up to two angles with labelled degrees. Greater Depth Questions to support calculating missing angles on straight lines. All angles are in increments of $1^{\circ}$ and are on a horizontal line. Only one angle may be labelled with degrees and clues given to calculate the missing angles.

More Year 5 Properties of Shapes resources.

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




Angles not drawn to scale



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## Developing

1 a .


2a. False as $50^{\circ}+140^{\circ}=190^{\circ}$
3a. $110^{\circ}$
4 a. $50^{\circ}$

## Expected

5a.


6a. False as $93^{\circ}+97^{\circ}=190^{\circ}$
7a. $107^{\circ}$
8 a. $49^{\circ}$

## Greater Depth

9a.


10a. True
11a. $107^{\circ}$
12a. $37^{\circ}$

## Developing

$1 b$.


2b. True
3b. $85^{\circ}$
4b. $75^{\circ}$

## Expected

5b.


6b. True
7b. $75^{\circ}$
8 b. $56^{\circ}$

## Greater Depth

9b.


10b. False as $139^{\circ}+132^{\circ}=181^{\circ}$
11b. $49^{\circ}$
12b. $35^{\circ}$

