## Varied Fluency

## Step 2: Introduce Angles

## National Curriculum Objectives:

Mathematics Year 6: (6G3a) Draw 2-D shapes using given dimensions and angles
Mathematics Year 6: (6G2a) Compare and classify geometric shapes based on their properties and sizes
Mathematics Year 6: (6G4a) Find unknown angles in any triangles, quadrilaterals and regular polygons
Mathematics Year 6: (6G4b) Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

## Differentiation:

Developing Questions to support introducing right angles and angles on a straight line by making links to quarter and half turns.
Expected Questions to support introducing right angles, angles on a straight line, and angles around a point, by making links to quarter, half, and three-quarter turns.
Greater Depth Questions to support introducing angles in shapes and comparing types of angles by making links to quarter, half, and three-quarter turns.

More Year 6 Properties of Shapes resources.

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

| 1a. Which of angle? <br> A. | following <br> B. | ws a right | 1b. Which of quarter turn? <br> A. | following <br> B. | ws a |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2a. Complete | s table. |  | 2b. Complet | is table. |  |
| Angle | Degrees | Amount of Turn | Angle | Degrees | Amount of Turn |
| Right angle |  | Quarter turn | Straight line | $180^{\circ}$ |  |
| Straight line | $180^{\circ}$ | Half furn | Right angle | $90^{\circ}$ | Quarter furn |

3a. True or false?
This angle is approximately $70^{\circ}$.


4a. If you are standing facing west and make one half turn clockwise, which direction will you be facing?


3b. True or false?
This angle is approximately $90^{\circ}$.


4b. If you are standing facing East and make one quarter turn anticlockwise, which direction will you be facing?


| 5a．How many right angles in these shapes？ |  |  | 5b．How many $90^{\circ}$ angles in these shapes？ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 鱼 |  | vF | 产 |  |  |
| 6a．Complete this table． |  |  | 6b．Complete this table． |  |  |
| Angle | Degrees | Amount of Turn | Angle | Degrees | Amount of Turn |
| Right angle | $90^{\circ}$ |  | Three right angles | $270^{\circ}$ |  |
| Straight line |  | Half turn | Straight line | $180^{\circ}$ | Half furn |
| Three right angles | $270^{\circ}$ | Three－quarter turn | Right angle |  | Quarter turn |
| $\widehat{\mathrm{K}}$ |  |  | 镸 |  |  |
| 7a．True or fal This angle is | roximate | $140^{\circ} .$ | 7b．True or fa This angle is | roximate | $20^{\circ} .$ |
| 8a．If you are standing facing west and turn $180^{\circ}$ clockwise，which direction will you be facing？ |  |  | 8b．If you are standing facing south and turn $270^{\circ}$ clockwise，which direction will you be facing？ |  |  |
| $\hat{E}$ | $\frac{N_{s}^{n}}{4}$ | VF |  |  |  |

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## Varied Fluency - Introduce Angles - Year 6 Greater Depth

## Varied Fluency Introduce Angles

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## Developing

1a. B
2a. $90^{\circ}$
3a. True.
4a. East

## Expected

5a. 5
6a. Quarter turn; $180^{\circ}$
7a. False. It is approximately $165^{\circ}$
8a. East

## Greater Depth

9a. 5
10a. $90^{\circ}$; quarter turn
Straight line; half turn
Three right angles; $270^{\circ}$
11 a. Less $\left(35^{\circ}+25^{\circ}=60^{\circ}\right)$
12a. North west

## Developing

1b. A
2b. Half turn
3b. False. It is approximately $100^{\circ}$.
4b. North

## Expected

5b. 4
6b. Three-quarter turn; $90^{\circ}$
7b. True.
8b. East

## Greater Depth

9b. 6
10b. Three right angles; three-quarter turn
$180^{\circ}$; half turn
Right angle; $90^{\circ}$
11b. More $\left(40^{\circ}+65^{\circ}=105^{\circ}\right)$
12b. South west

