Varied Fluency Step 1: Measuring Angles in Degrees

National Curriculum Objectives:

Mathematics Year 5: (5G4a) <u>Know angles are measured in degrees: estimate and</u> compare acute, obtuse and reflex angles

Mathematics Year 5: (5G4b) <u>Identify angles at a point and one whole turn (total 360)</u>
Mathematics Year 5: (5G4b) <u>Identify angles at a point on a straight line and 1/2 a turn</u> (total 180)

Mathematics Year 5: (5G4b) Identify other multiples of 90

Mathematics Year 5: (5G4c) <u>Draw given angles, and measure them in degrees</u>

Differentiation:

Developing Questions to support measuring degrees around a point, including angles in increments of 90°. Using right angles and reflex angles. Clock faces and compasses used in quarter increments.

Expected Questions to support measuring degrees around a point, including angles in increments of 30° and 45°. Using acute, obtuse, reflex and right angles. Clock faces used in increments of twelve and compasses used in increments of eight.

Greater Depth Questions to support measuring degrees around a point, including some angles in increments of 30° and 45°. Using acute, obtuse, reflex and right angles. Clock faces used in increments of twelve and compasses used in increments of eight, where some or no increments are marked.

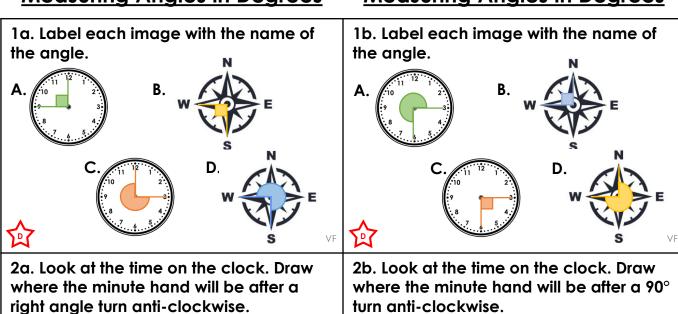
More Year 5 Properties of Shapes resources.

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



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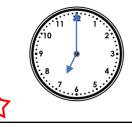
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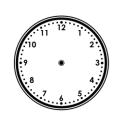






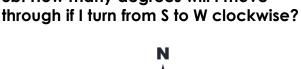
turn anti-clockwise.





VF

3a. How many degrees will I move through if I turn from N to W clockwise? 3b. How many degrees will I move









4a. How many $\frac{1}{2}$ turns are equal to 360°?



4b. How many $\underline{1}$ turns are equal to 270°?



5a. Use >, < or = to complete the equation.

180°

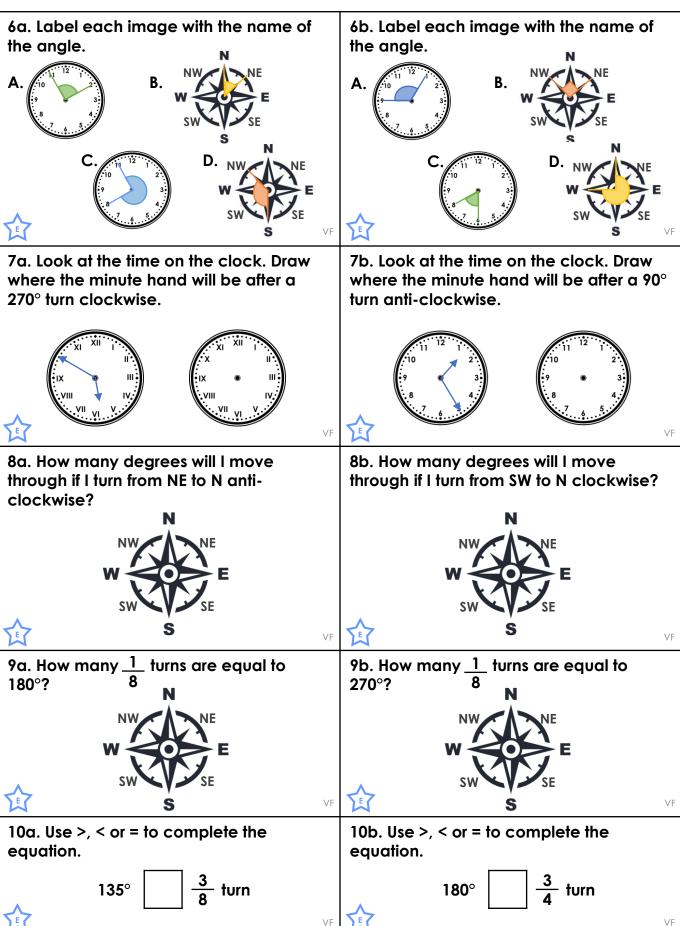
5b. Use >, < or = to complete the equation.





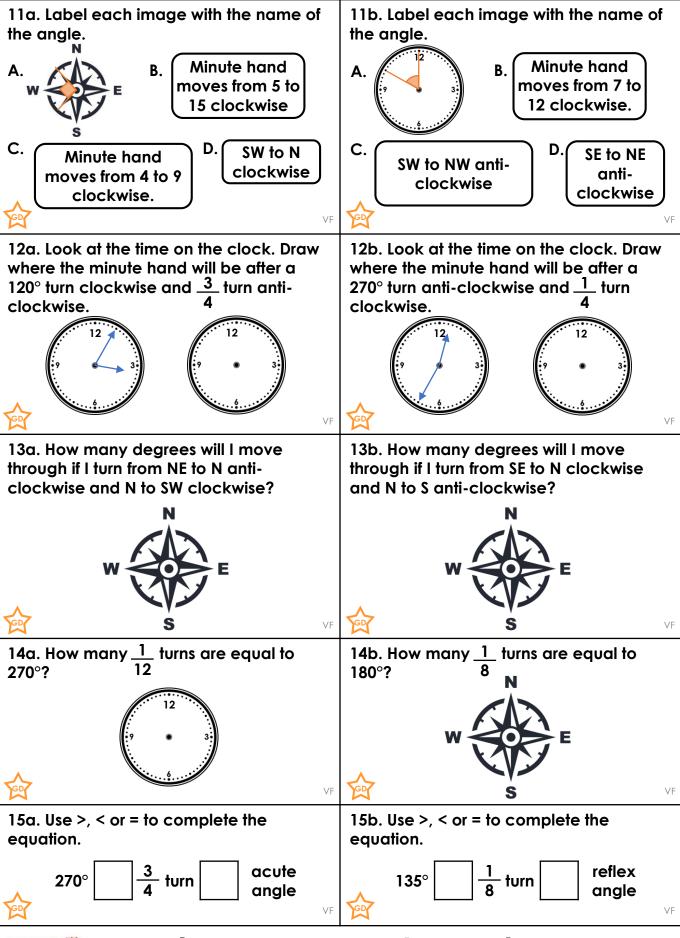
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Developing

1a. A - right angle; B - right angle; C reflex; D - reflex

2a. 6

3a. 270°

4a. 4 turns

5a. =

Expected

6a. A – right angle; B – acute angle; C – reflex angle; D – obtuse angle

7a. 7

8a. 45°

9a. 4 turns

10a. =

Greater Depth

11a. A – right angle; B – acute angle; C – obtuse angle; D – obtuse angle

12a.8

13a. 270°

14a. 9 turns

15a. =, >

<u>Developing</u>

1b. A – reflex angle; B – right angle; C – right angle; D – reflex angle

2b. 9

3b. 90°

4b. 3 turns

5b. <

Expected

6b. A – obtuse; B – right angle; C – acute angle; D – reflex angle

7b. 2

8b. 135°

9b. 6 turns

10b. <

Greater Depth

11b. A – acute angle; B – obtuse angle; C

- reflex angle; D - right angle

12b. 1

13b. 405°

14b. 4 turns

15b. >, <

