Homework/Extension
Step 2: Measuring with a Protractor 1

National Curriculum Objectives:

Mathematics Year 5: (5G4a) Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
Mathematics Year 5: (5G4c) Draw given angles and measure them in degrees

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Measure acute angles in 10˚ increments using a protractor to prove a given statement. Protractors provided.
Expected Measure acute angles in 5˚ increments using a protractor to prove a given statement. Some protractors provided.
Greater Depth Measure acute angles of any value using a protractor, on horizontal and diagonal lines, to prove a given statement.

Questions 2, 5 and 8 (Varied Fluency)
Developing Match angles to the labels by measuring acute angles in 10˚ increments using a protractor. Angles presented on a horizontal line. Protractors provided.
Expected Match angles to the labels by measuring acute angles in 5˚ increments using a protractor. Most angles presented on a horizontal line. Some protractors provided.
Greater Depth Match angles to the labels by measuring acute angles of any value using a protractor. Not all angles presented on a horizontal line.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Measure angles in 10˚ increments using a protractor, on a horizontal line, to identify acute angles in order to crack a code. Protractors provided.
Expected Measure angles in 5˚ increments using a protractor, most angles on a horizontal line, to identify acute angles in order to crack a code. Some protractors provided.
Greater Depth Measure angles using a protractor of any value not all angles are presented on a horizontal line, to identify acute angles in order to crack a code.

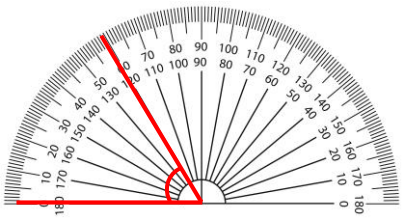
More Year 5 Properties of Shapes resources.

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

Measuring with a Protractor 1

1. True or false? Angles A, B and C are all less than 90°.

A.



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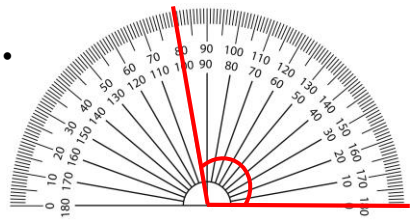

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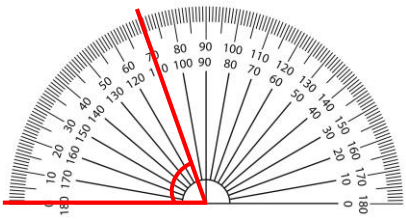

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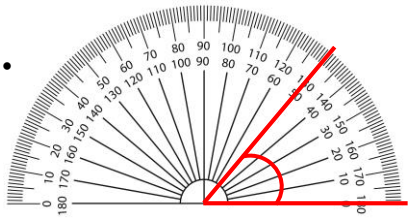
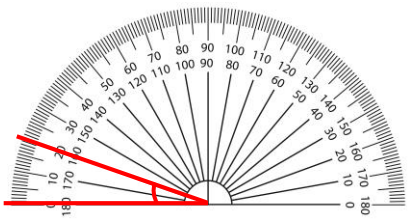


D

VF
HW/Ext

2. Match the angles to the correct labels.

A.



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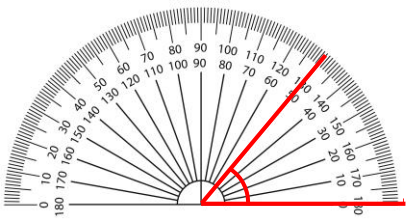

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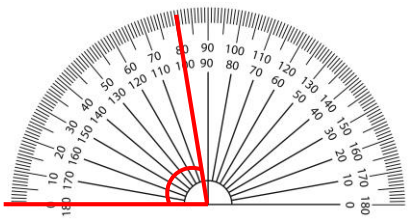

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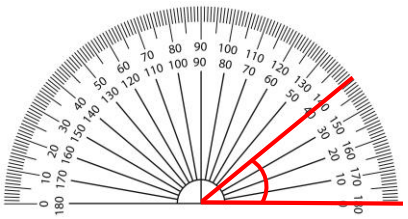


80°

40°

50°

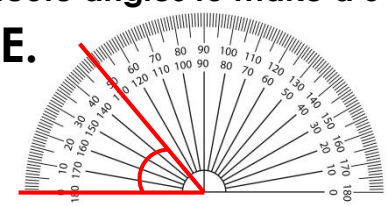
20°

D

VF
HW/Ext

3. Crack the code! Measure these angles with a protractor. Use the letters from the acute angles to make a 5-letter mathematical word.

E.



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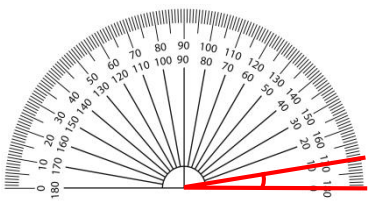

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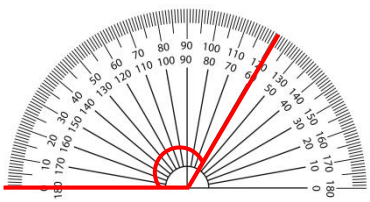
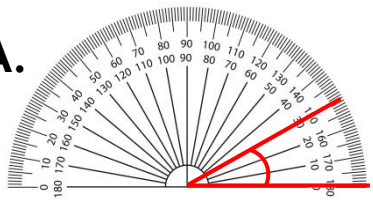


A.



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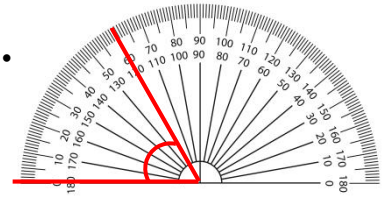
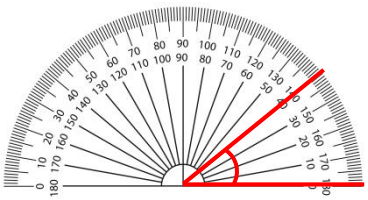


L.



D

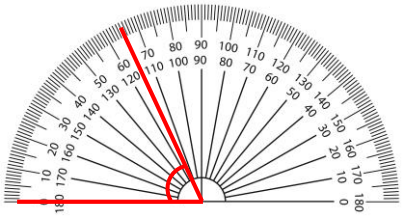
_ _ _ _ _

RPS
HW/Ext

Measuring with a Protractor 1

4. True or false? Angles A, C and D are all less than 90°.

A.



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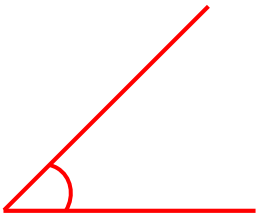

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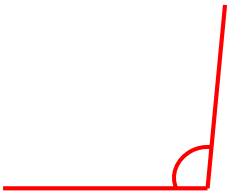

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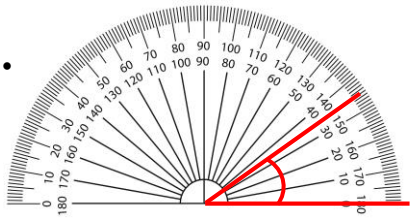
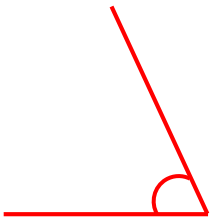


E

VF
HW/Ext

5. Match the angles to the correct labels.

A.



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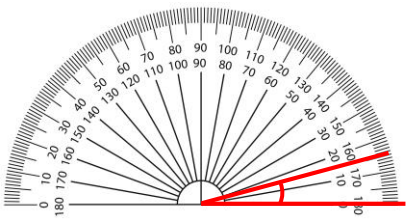

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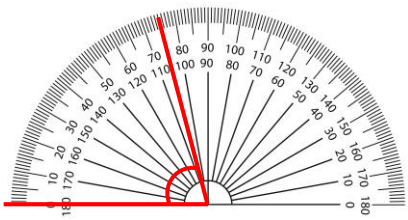

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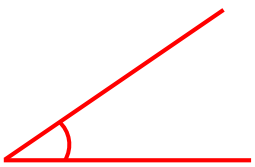


75°

35°

65°

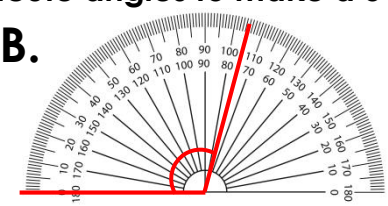
15°

E

VF
HW/Ext

6. Crack the code! Measure these angles with a protractor. Use the letters from the acute angles to make a 5-letter mathematical word.

B.



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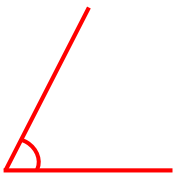

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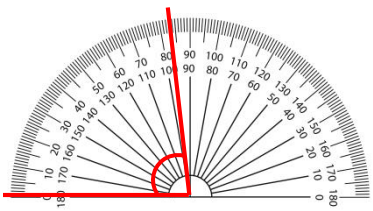
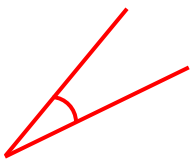
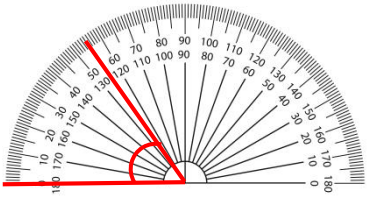


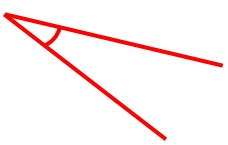
A.



T.



U.



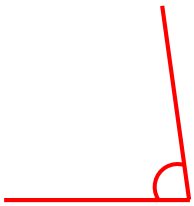
E

RPS
HW/Ext

Measuring with a Protractor 1

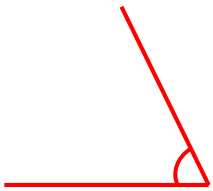
7. True or false? Angles B, C and D are all less than 90°.

A.



B.

C.



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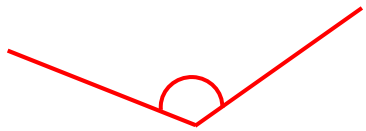
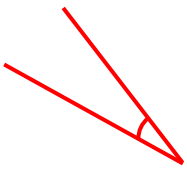


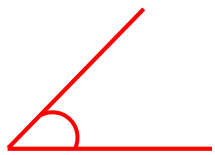
VF
HW/Ext

8. Match the angles to the correct labels.

A.



B.



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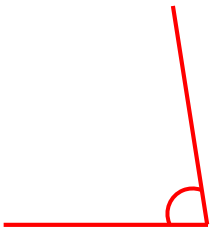

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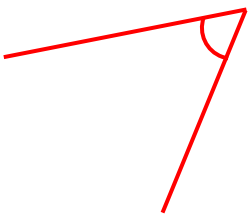


82°

57°

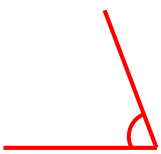
24°

46°

VF
HW/Ext

9. Crack the code! Measure these angles with a protractor. Use the letters from the acute angles to make a 6-letter mathematical word.

R.



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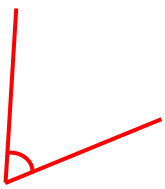
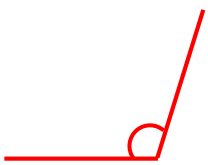


A.



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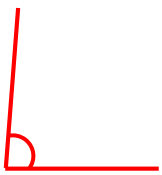

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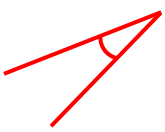
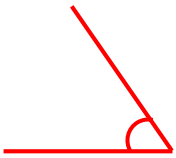
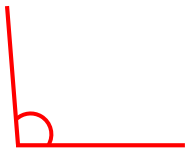


G.



F.



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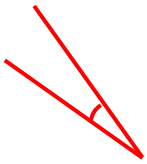

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RPS
HW/Ext

Homework/Extension
Measuring with a Protractor 1

Developing

1. False, B is more than 90°, it should be A, C & D.
2. A = 20°, B = 50°, C = 80°, D = 40°
3. ANGLE

Expected

4. False, C is more than 90°, it should be A, B & D.
5. A = 65°, B = 15°, C = 75°, D = 35°
6. ACUTE

Greater Depth

7. False, D is more than 90°, it should be A, B & C.
8. A = 24°, B = 46°, C = 82°, D = 57°
9. DEGREE