Calculating Angles Around a Point

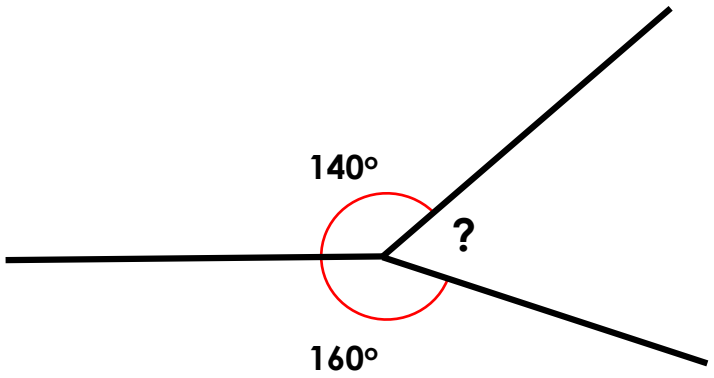
1. Draw lines to match up the correct degrees and turns.

360°	three quarter turn
180°	full turn
90°	half turn
270°	quarter turn

D

VF
HW/Ext

2. True or false? The missing angle is 50°.

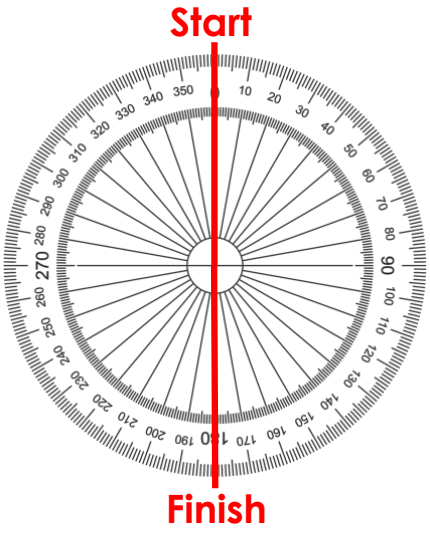


D

VF
HW/Ext

3. Ava gives these instructions. What mistake has she made? Explain your answer.

From the start, if I make a quarter turn clockwise, then a 25° turn anti-clockwise, followed by a 120° turn clockwise I will reach the finish.



D

RPS
HW/Ext

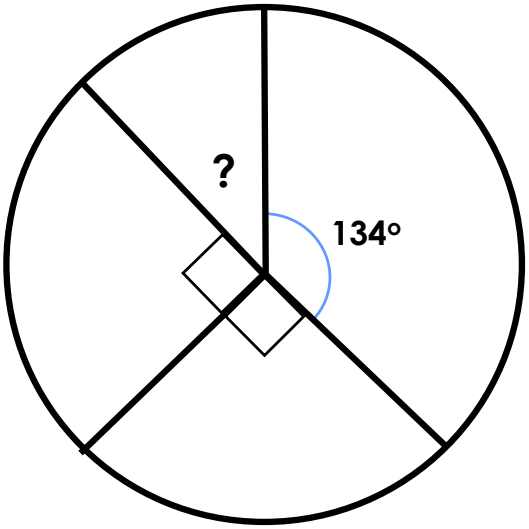
Calculating Angles Around a Point

4. Draw lines to match up the correct degrees, number of right angles and turns.

360°	2 right angles	three quarter turn
180°	1 right angle	full turn
90°	3 right angles	half turn
270°	4 right angles	quarter turn

VF
HW/Ext

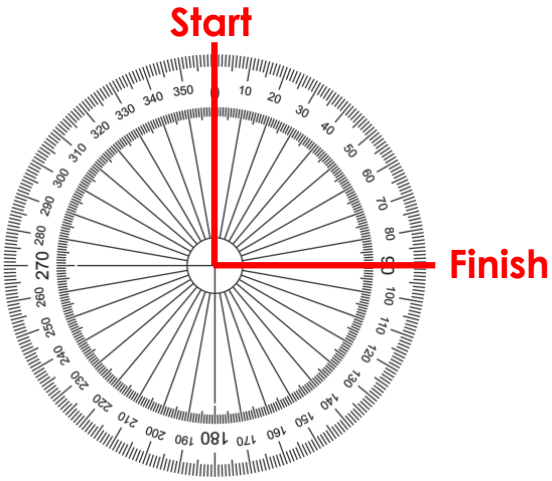
5. True or false? The missing angle is 51°.



VF
HW/Ext

6. Jakub gives these instructions. What mistake has he made? Explain your answer.

From the start, if I make a quarter turn clockwise, then a 120° turn anti-clockwise, followed by a right-angled turn anti-clockwise and a 115° turn anti-clockwise I will reach the finish.



RPS
HW/Ext

Calculating Angles Around a Point

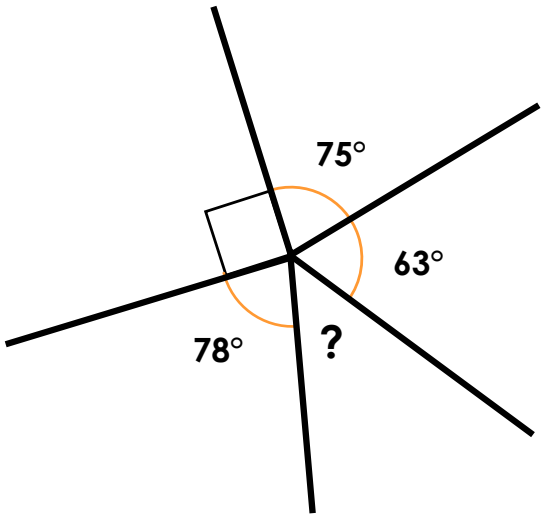
7. Fill in the blanks and then draw lines to match up the correct degrees, number of right angles and turns.

360°	_____ right angles	three quarter turn
_____°	1 right angle	full turn
90°	3 right angles	_____turn
_____°	_____ right angles	_____turn

GD

VF
HW/Ext

8. True or false? The missing angle is 56°.

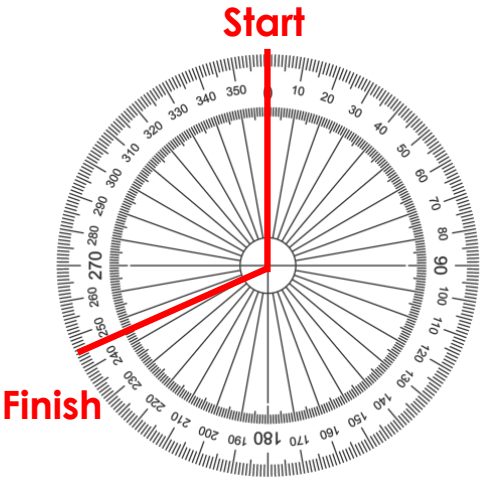


GD

VF
HW/Ext

9. Lena gives these instructions. What mistake has she made? Explain your answer.

From the start, if I make a half turn clockwise, then a 71° turn anti-clockwise, followed by a three right-angled turn clockwise, then a quarter turn anti-clockwise and a 19° turn anti-clockwise I will reach the finish.



GD

RPS
HW/Ext

Homework/Extension
Calculating Angles Around a Point

Developing

1. 90° – quarter turn, 180° – half turn, 270° – three quarter turn, 360° – full turn
2. False, the missing angle is 60°.
3. The last turn should be 115°, not 120°.

Expected

4. 90° – 1 right angle – quarter turn, 180° – 2 right angles – half turn, 270° – 3 right angles – three quarter turn, 360° – 4 right angles – full turn
5. False, the missing angle is 46°.
6. The final turn should be 160°, not 115°.

Greater Depth

7. 90° – 1 right angle – quarter turn, 180° – 2 right angles – half turn, 270° – 3 right angles – three quarter turn, 360° – 4 right angles – full turn
8. False, the missing angle is 54°.
9. The last turn should be 44°, not 19°.