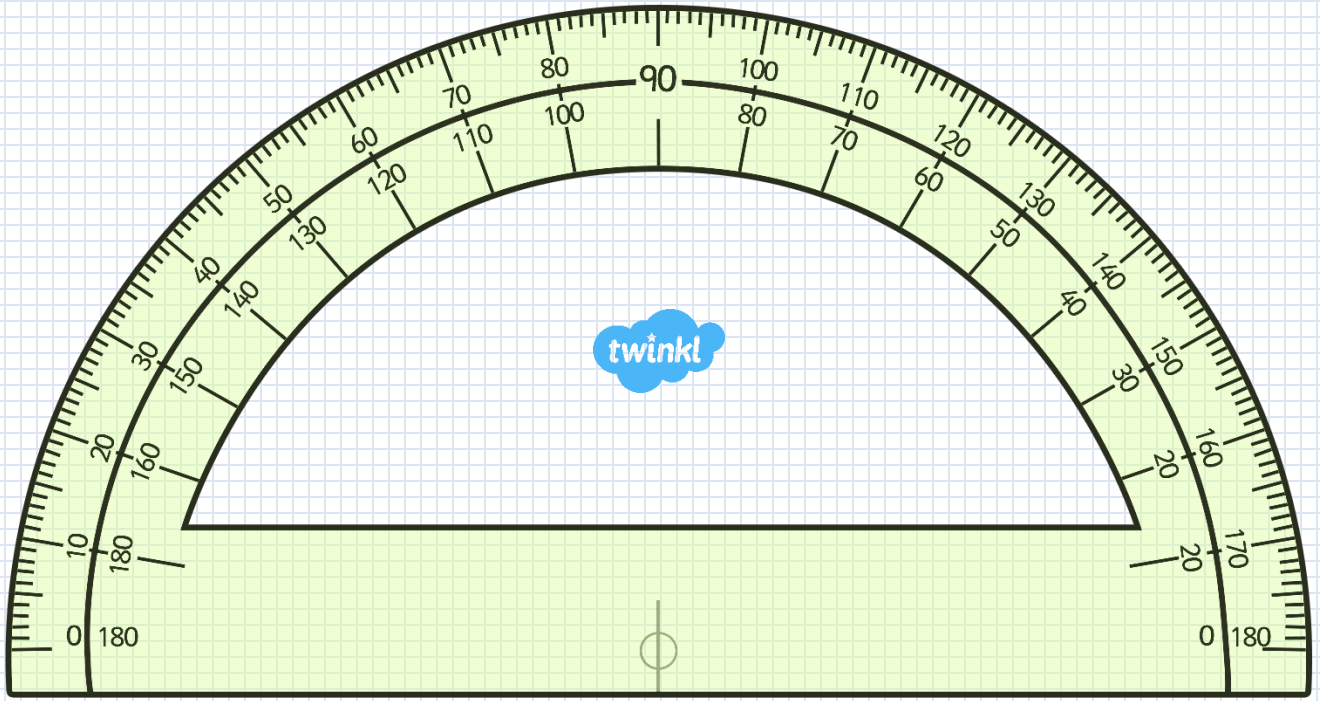
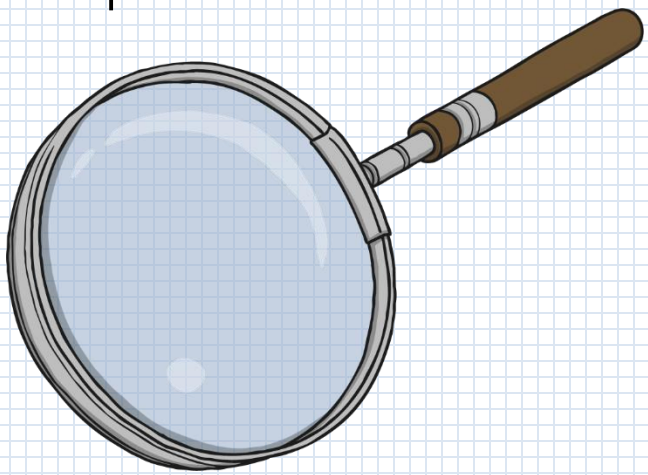
Calculating Angles on a Straight Line



Learning Objectives

- **Perform mental subtraction calculations.**
- Be able to calculate unknown angles on a straight line
- Be able to calculate unknown angles around a point



Subtracting

$10 - 4 = 6$

$40 - 15 = 25$

Subtracting

$40 - 10 = 30$

$80 - 30 = 50$

Subtracting

$50 - 10 = 40$

$90 - 30 = 60$

Subtracting

$50 - 20 = 30$

$140 - 10 = 130$

Subtracting

$90 - 60 = 30$

$130 - 70 = 60$

Subtracting

$180 - 70 = 110$

$190 - 95 = 95$

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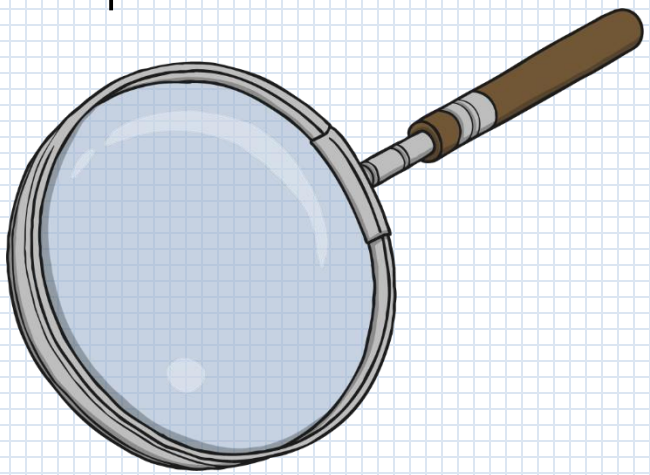
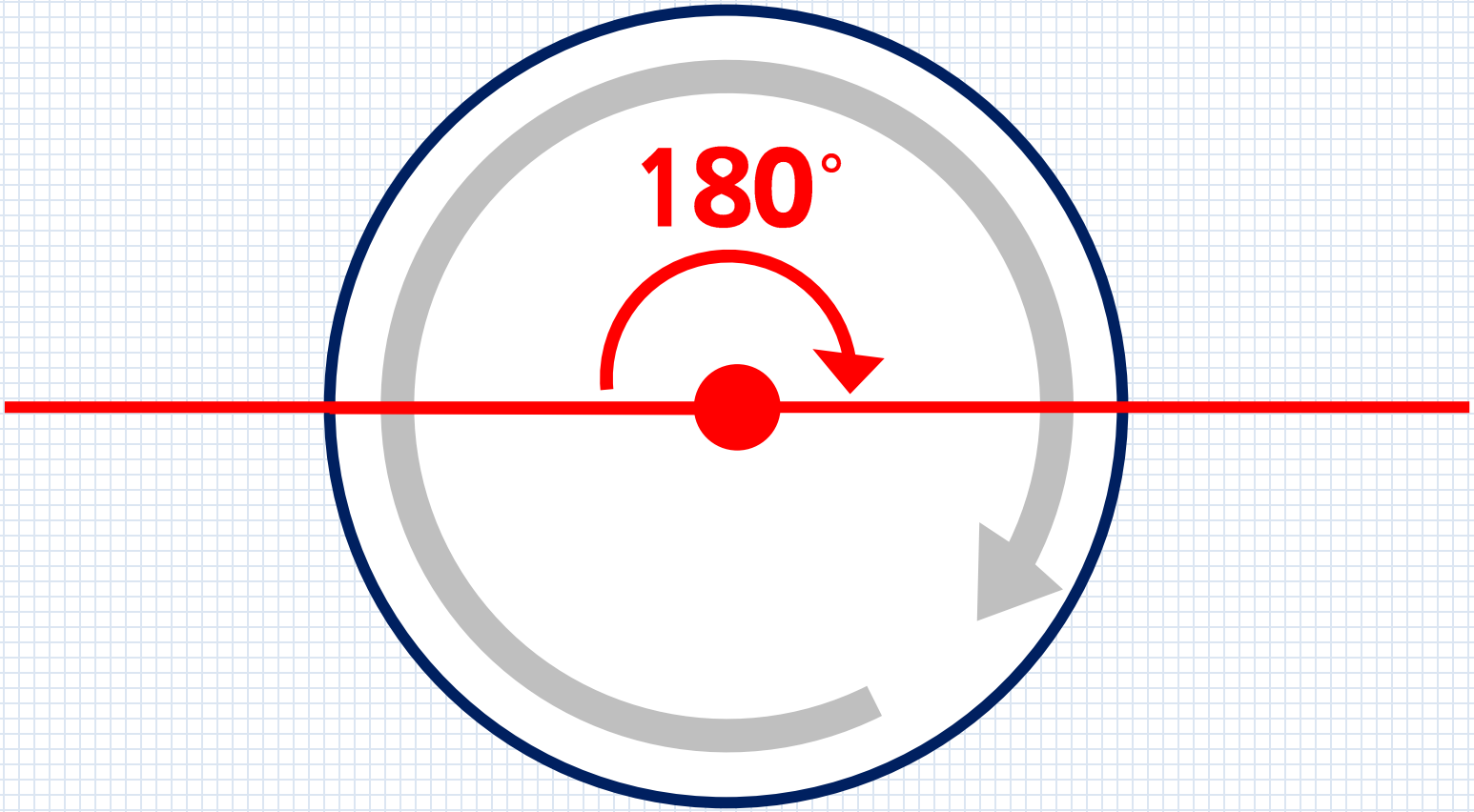


Straight Angles

A half of a full turn is called a **straight angle**. It measures 180°



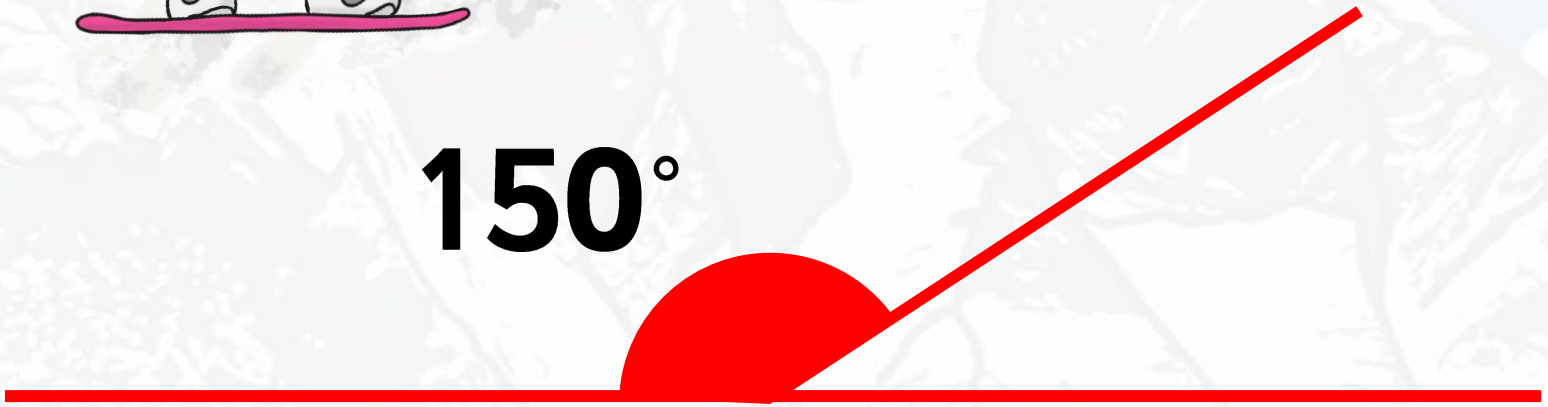
Snowboarders Doing 180° Spins

180°

A snowboarder attempts a 180° spin but doesn't quite make it. How many degrees has he missed the turn by?

Another snowboarder tries the same turn and misses.
By how many degrees has he missed it?

150°



Another snowboarder tries the same turn and misses.
By how many degrees has he missed it?

90°

Learning Objectives

- Perform mental subtraction calculations.
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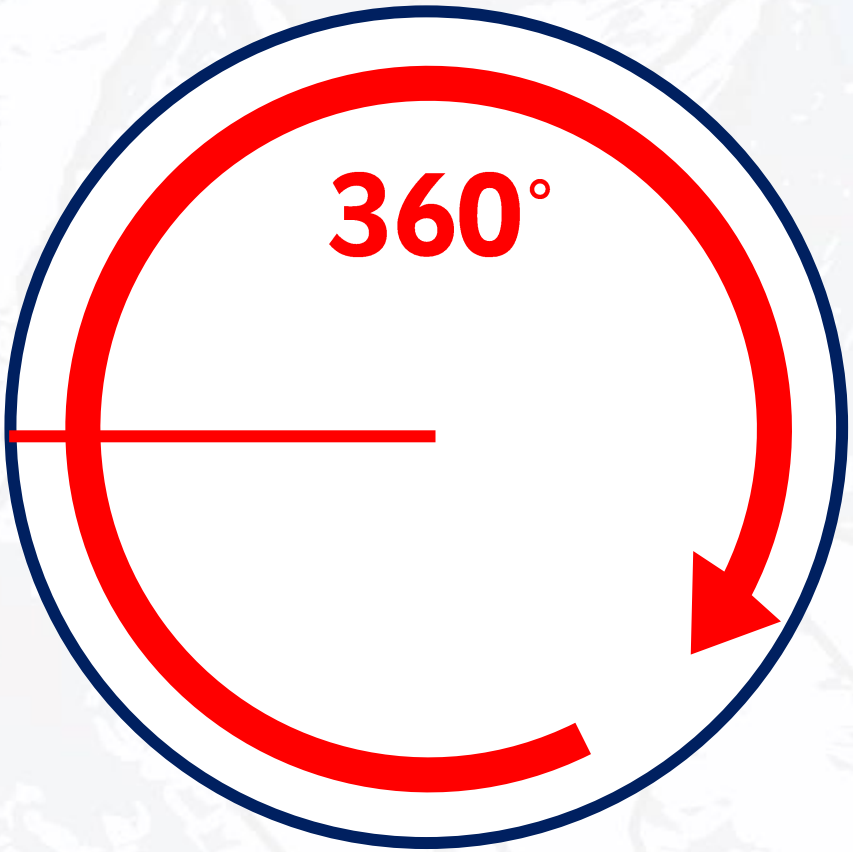
A Full Turn

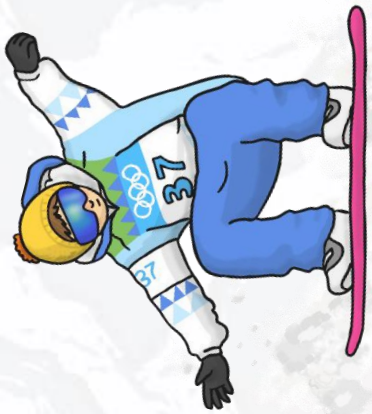
A full turn is when a line turns around in a complete circle.
It measures 360°



A snowboarder attempts a 360° spin but doesn't quite make it. How many degrees has he missed the turn by?

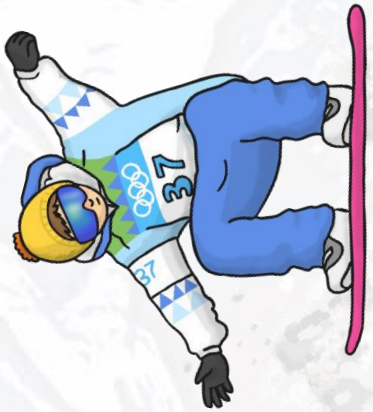
300°

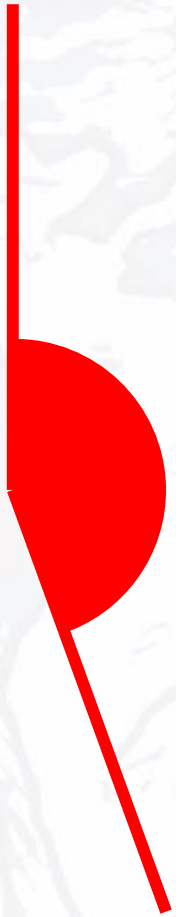
A snowboarder attempts a 360° spin but doesn't quite make it. How many degrees has he missed the turn by?



210°

A snowboarder attempts a 360° spin but doesn't quite make it. How many degrees has he missed the turn by?





170°

Key Terms

degrees

scale

subtract

180°

360°

The End