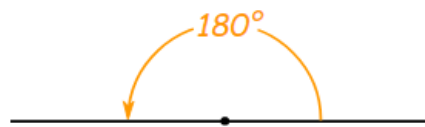


Lesson 1 - Angles on a straight angle

Straight Angle

A straight angle is 180 degrees

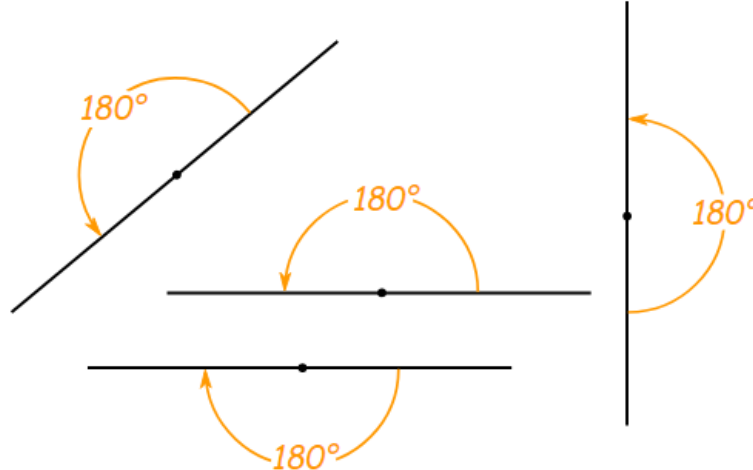


This is a straight angle

A straight angle changes the direction to point the opposite way.

Sometimes people say "You did a complete 180 on that!" ... meaning you completely changed your mind, idea or direction.

All the angles below are straight angles:



Look through the powerpoint to find out more about angles on a straight angle

Choose a task that you feel confident in completing. 3 options that you have are developing, expected and greater depth.

Developing

Angles on a Straight Line

Angles on a Straight Line

1a. Match the facts.

Degrees on a straight line

90

Degrees in a right angle

180



VF

1b. Match the facts.

Degrees in 2 right angles

180

Right angles on a straight line

2



VF

2a. True or false?

$$50^\circ + 140^\circ = 180^\circ$$



VF

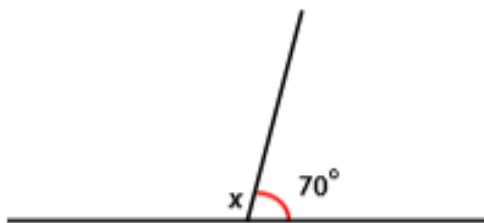
2b. True or false?

$$65^\circ + 115^\circ = 180^\circ$$



VF

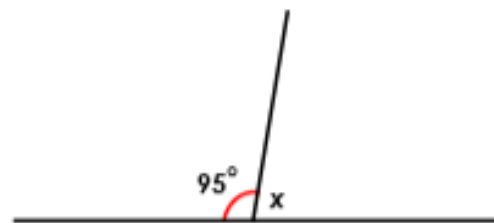
3a. Calculate the missing angle.



Angles not drawn to scale

VF

3b. Calculate the missing angle.



Angles not drawn to scale

VF

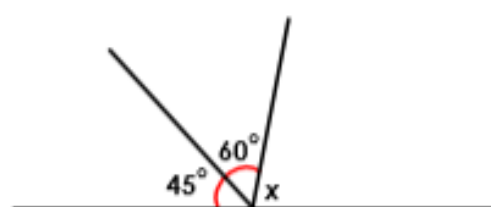
4a. Work out the missing angle from the given angle.



Angles not drawn to scale

VF

4b. Work out the missing angle from the given angle.



Angles not drawn to scale

VF

Expected

Angles on a Straight Line

Angles on a Straight Line

5a. Match the facts.

| | |
|----------------------------|-----|
| Degrees on a straight line | 270 |
| Degrees in a right angle | 180 |
| Degrees in 3 right angles | 90 |

5b. Match the facts.

| | |
|-------------------------------|-----|
| Degrees in half a right angle | 360 |
| Degrees in 2 right angles | 180 |
| Degrees on 2 straight lines | 45 |



VF



VF

6a. True or false?

$$93^\circ + 97^\circ = 180^\circ$$



VF

6b. True or false?

$$31^\circ + 149^\circ = 180^\circ$$



VF

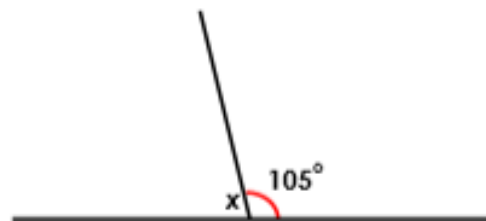
7a. Calculate the missing angle.



Angles not drawn to scale

VF

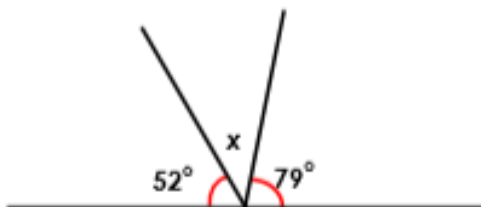
7b. Calculate the missing angle.



Angles not drawn to scale

VF

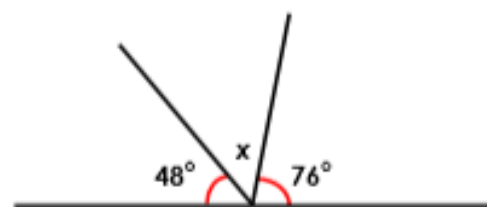
8a. Work out the missing angle from the two given angles.



Angles not drawn to scale

VF

8b. Work out the missing angle from the two given angles.



Angles not drawn to scale

VF

Greater Depth

Angles on a Straight Line

Angles on a Straight Line

9a. Match the facts.

Degrees on 3 straight lines

450

Degrees in 5 right angles

540

Right angles on one side of 60 straight lines

120



VF

9b. Match the facts.

Degrees on 2 straight lines

20

Degrees in 5 right angles

450

Right angles on one side of 10 straight lines

360



VF

10a. True or false?

$$61^\circ + 119^\circ = 180^\circ$$



VF

10b. True or false?

$$49^\circ + 132^\circ = 180^\circ$$



VF

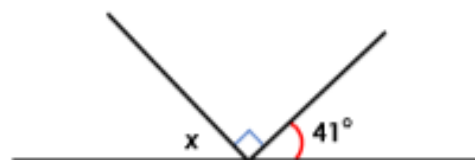
11a. Calculate the missing angle.



Angles not drawn to scale

VF

11b. Calculate the missing angle.



Angles not drawn to scale

VF

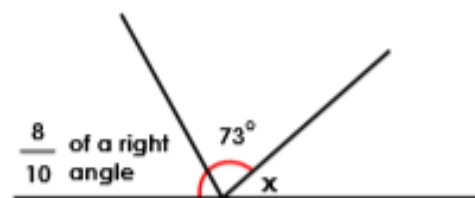
12a. Work out the missing angle from the two given angles.



Angles not drawn to scale

VF

12b. Work out the missing angle from the two given angles.



Angles not drawn to scale

VF