

Bradley is measuring two angles on a straight line.

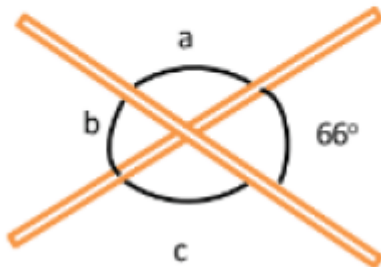
My angles measure 73° and 108°



His angles total more than 180° He must have measured incorrectly.

Explain why Bradley's angles must be wrong.

Two match sticks are on a table. Without measuring, find the three missing angles.



Angle a is on a straight line with 66° .

$$\text{So } a + 66 = 180$$

$$a = 114^\circ$$

Angle b is on a straight line with angle a

$$\text{So } a + b = 180$$

$$\text{So } 114 + b = 180$$

$$b = 66^\circ$$

Angle c is on a straight line with angle b

$$\text{So } b + c = 180$$

$$\text{So } 66 + c = 180$$

$$c = 114^\circ$$