

Name: _____

Date: _____



Measure one of the angles on each of these straight lines, then calculate the other angle! Remember, there are always 180° in a straight line! Tick the angle you measured.

 a 135° b 45°	 a 30° b 150°
 a 105° b 75°	 a 157° b 23°
 a 68° b 112°	 a 83° b 97°

Now see if you can identify whether each of the angles in these triangles are **acute**, **obtuse**, **reflex** or **right** angles.

 a acute b right c acute	 a acute b obtuse c acute
 a obtuse b acute c acute	 a acute b right c acute

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Draw lines to create given angles around a point. Use these measurements to calculate the missing angle. Remember, there are always 360° around a point! **Label all of the angles.**

Angle a=70° Angle b=130° Angle c= 160° 	Angle a=55° Angle b=85° Angle c= 220° 	Angle a=110° Angle b=230° Angle c= 20°
Angle a=25° Angle b=95° Angle c= 240° 	Angle a=100° Angle b=140° Angle c= 120° 	Angle a=35° Angle b=80° Angle c= 245°
Angle a=205° Angle b=35° Angle c= 120° 	Angle a=125° Angle b=25° Angle c= 210° 	Angle a=45° Angle b=55° Angle c= 260°

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Draw a line from the point on each straight line so that you create a given angle. Use this measurement to calculate the second angle. Remember, there are always 180° in a straight line!

Draw a line from the point so one of the angles is 75° . Calculate the second angle. Label each angle. 	Draw a line from the point so one of the angles is 113° . Calculate the second angle. Label each angle. 	Draw a line from the point so one of the angles is 28° . Calculate the second angle. Label each angle.
105° 75°	67° 113°	152° 28°

Draw a line to create a given angle around a point. Use this measurement to calculate the second angle. Remember, there are always 360° around a point!

Draw and label an angle of 195° . Calculate and label the second angle. 	Draw and label an angle of 240° . Calculate and label the second angle.
195° 165°	240° 120°
Draw and label an angle of 35° . Calculate and label the second angle. 	Draw and label an angle of 80° . Calculate and label the second angle.
35° 325°	80° 280°

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Draw hands on a blank clock face to show the times below. Measure the two angles between the hands using a protractor. Write your measurements below.

a) 08.00 Small angle= 120° Large angle= 240°	f) 04.30 Small angle= 45° Large angle= 315°	k) 05.00 Small angle= 150° Large angle= 210°
b) 02.00 Small angle= 60° Large angle= 300°	g) 09.30 Small angle= 105° Large angle= 255°	l) 04.00 Small angle= 120° Large angle= 240°
c) 08.30 Small angle= 75° Large angle= 285°	h) 07.00 Small angle= 150° Large angle= 210°	m) 11.30 Small angle= 165° Large angle= 195°
d) 03.30 Small angle= 75° Large angle= 285°	i) 01.00 Small angle= 30° Large angle= 330°	n) 09.00 Small angle= 90° Large angle= 270°
e) 10.00 Small angle= 60° Large angle= 300°	j) 02.30 Small angle= 105° Large angle= 255°	o) 07.30 Small angle= 45° Large angle= 315°

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Draw hands on a blank clock face to show the times below. Measure the two angles between the hands using a protractor. Write your measurements below.

a) 08.00 Small angle= Large angle=	f) 04.30 Small angle= Large angle=	k) 07.00 Small angle= Large angle=
b) 02.00 Small angle= Large angle=	g) 09.30 Small angle= Large angle=	l) 04.00 Small angle= Large angle=
c) 08.30 Small angle= Large angle=	h) 07.00 Small angle= Large angle=	m) 11.30 Small angle= Large angle=
d) 03.30 Small angle= Large angle=	i) 01.00 Small angle= Large angle=	n) 09.00 Small angle= Large angle=
e) 10.00 Small angle= Large angle=	j) 02.30 Small angle= Large angle=	o) 04.00 Small angle= Large angle=