

Lines, Angles and Geometric Transformations

Skill Builder

1 Lines, Segments, and Rays

EVALUATED



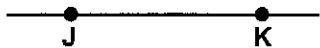
- 1** Given points A and B below, draw ray AB.



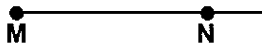
- 2** Given points A and B below, draw segment AB.



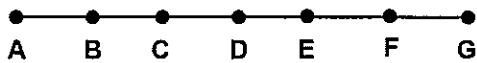
- 3** Name the geometric figure below.



- 4** Name the geometric figure below.



- 5** In the diagram below, which point is the midpoint of the segment BF?



- 6** In the diagram below, which point is the midpoint of the segment AE?



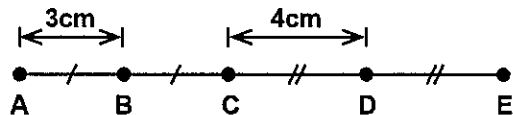
- 7** In the diagram below, which segment has the point B as its midpoint?



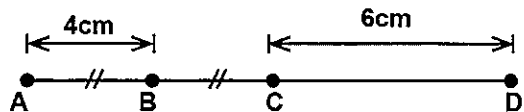
- 8** In the diagram below, which segment has the point I as its midpoint?



- 9** Determine $m\overline{AE}$ in the diagram below.



- 10** Determine $m\overline{BD}$ in the diagram below.



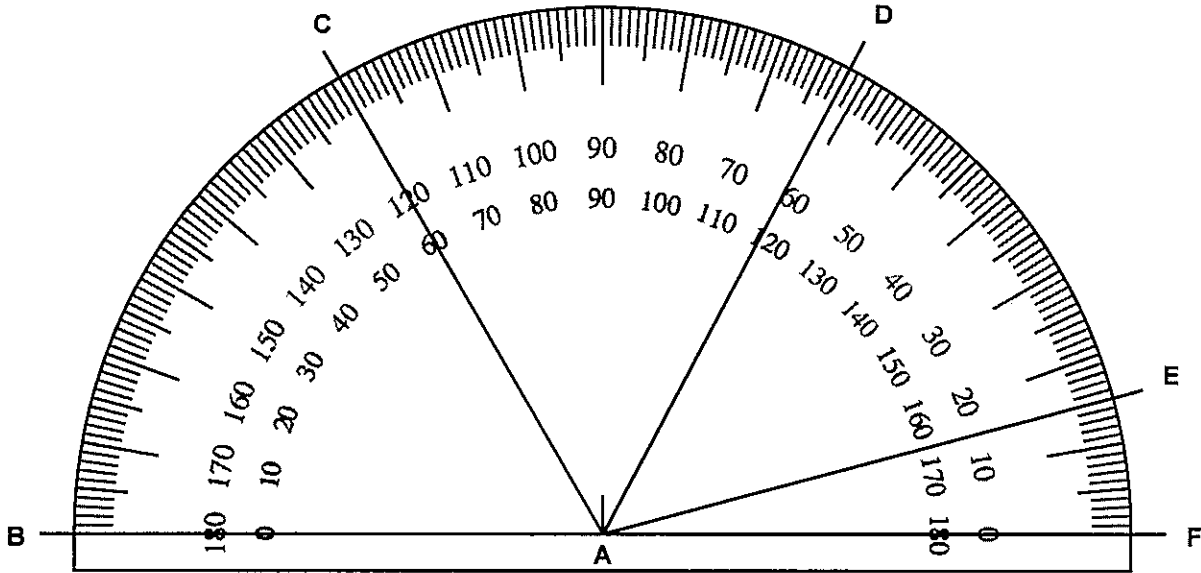
Name : _____

Score : _____

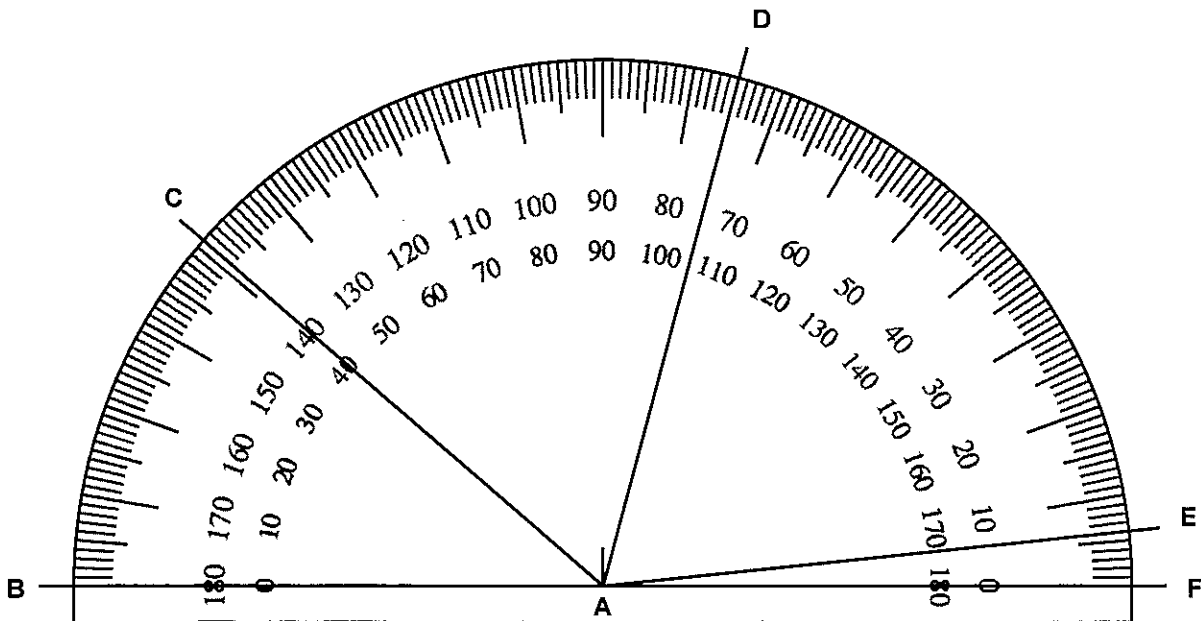
Teacher : _____

Date : _____

Find the measure of each angle in degrees.



$\angle CAB$ _____ $\angle DAB$ _____ $\angle EAB$ _____ $\angle CAF$ _____ $\angle DAF$ _____ $\angle EAF$ _____



$\angle CAB$ _____ $\angle DAB$ _____ $\angle EAB$ _____ $\angle CAF$ _____ $\angle DAF$ _____ $\angle EAF$ _____

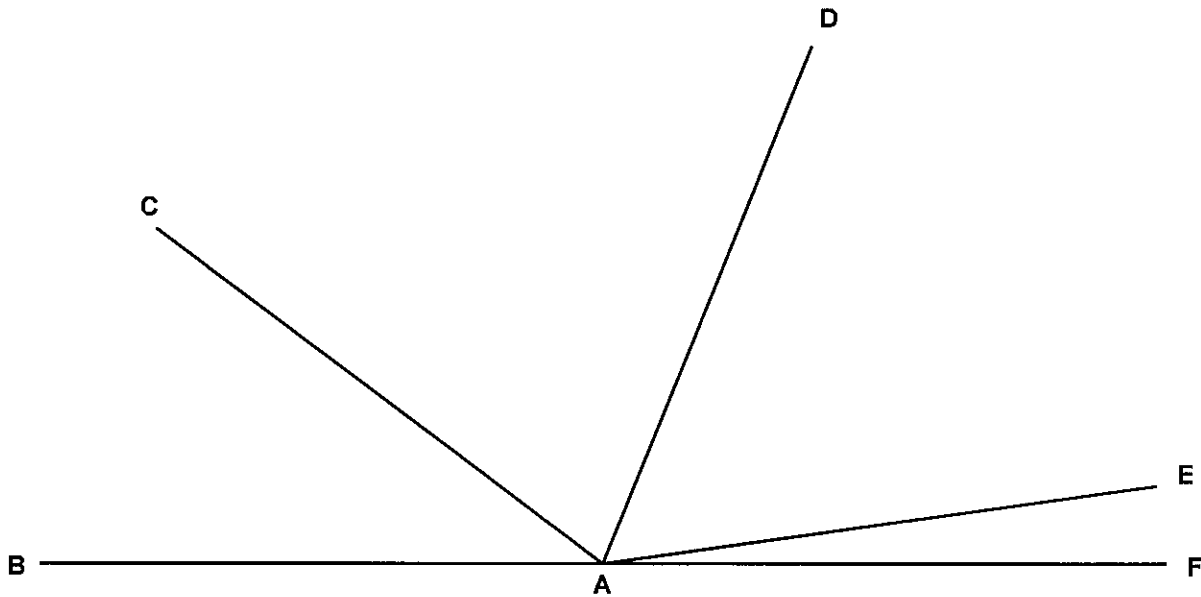
Name : _____

Score : _____

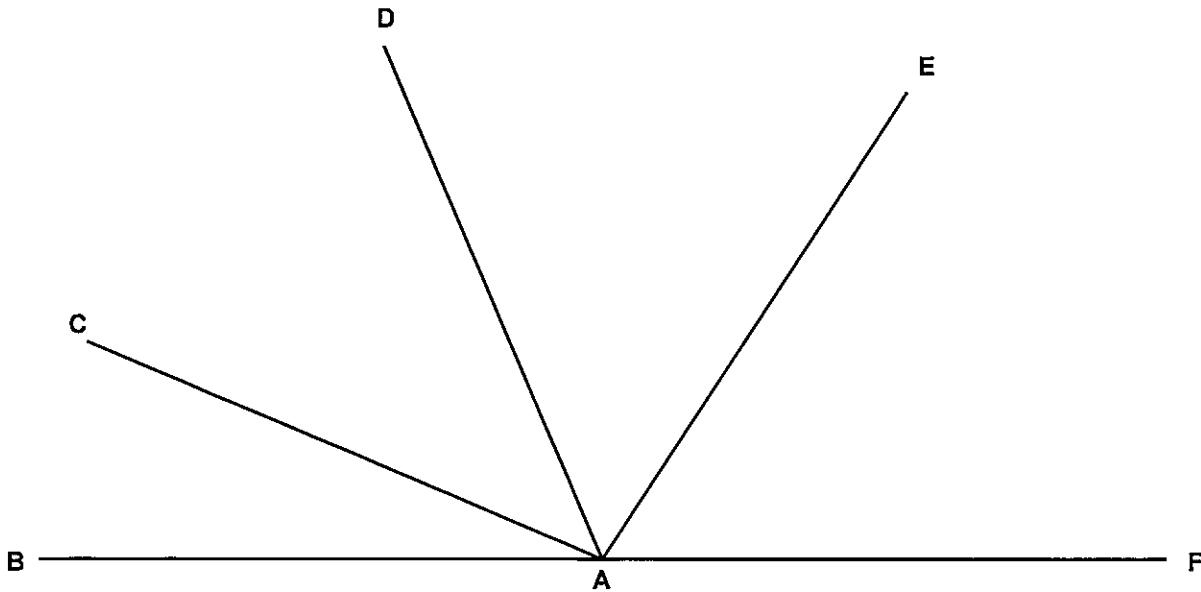
Teacher : _____

Date : _____

Find the measure of each angle in degrees.



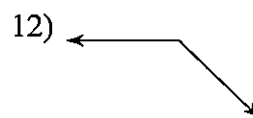
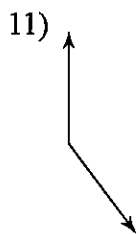
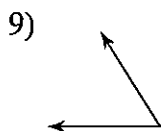
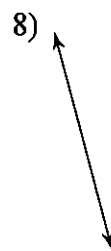
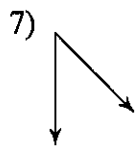
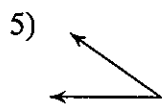
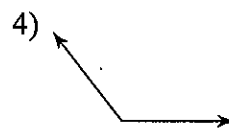
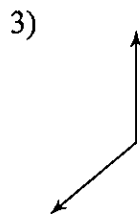
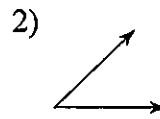
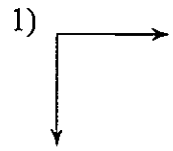
$\angle CAB$ _____ $\angle DAB$ _____ $\angle EAB$ _____ $\angle CAF$ _____ $\angle DAF$ _____ $\angle EAF$ _____



$\angle CAB$ _____ $\angle DAB$ _____ $\angle EAB$ _____ $\angle CAF$ _____ $\angle DAF$ _____ $\angle EAF$ _____

Secondary 1

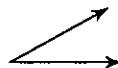
Classify each angle as acute, obtuse, right, or straight.



13)



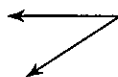
14)



15)



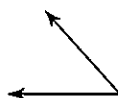
16)



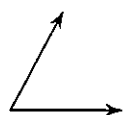
17)



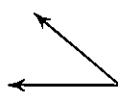
18)



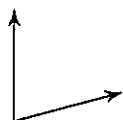
19)



20)



21)



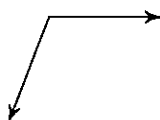
22)



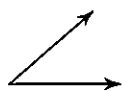
23)



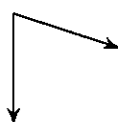
24)



25)



26)

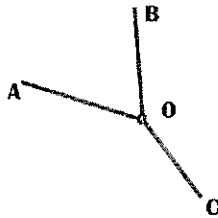




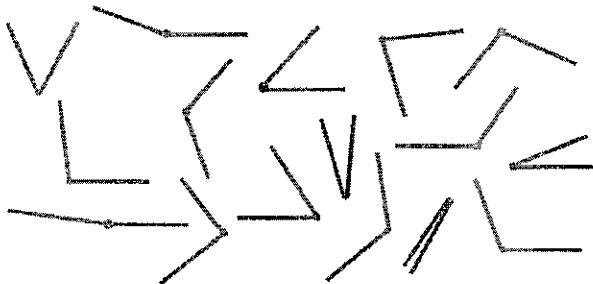
- 1** Without the use of a protractor, use estimation to label the following angles using the terms acute, right and obtuse.



- 2** Name the acute angle and both the obtuse angles in the following diagram.



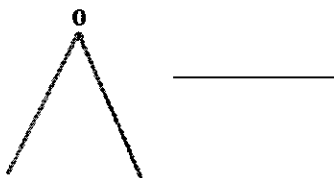
- 3** Find the right angle amongst these angles.



- 4** Form a right angle at the top of a vertical line.



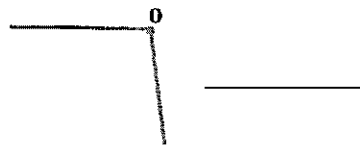
- 5** Measure the size of angle O, in degrees.



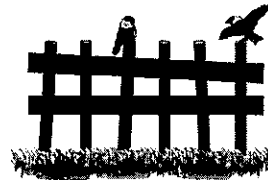
- 6** Measure angle B, and classify it using the terms: acute, right or obtuse.



- 7** Verify that the following angle is an obtuse angle.



- 8** A rickety old fence is made from wooden posts. Determine which of the six posts are standing vertically.



- 9** For the safe operation of a step-ladder, the legs must be separated no less than 20° but no more than 25° . Calum's dad is painting the ceiling and has set up his step-ladder as shown in the diagram. Is the ladder set up safely?



- 10** Lenny has a desk lamp that he uses when he is doing his homework. At what angle does he position the arm of his lamp?



Secondary 1

Draw an angle with the given measurement.

1) 180°

2) 90°

3) 25°

4) 55°

5) 125°

6) 150°

7) 85°

8) 50°

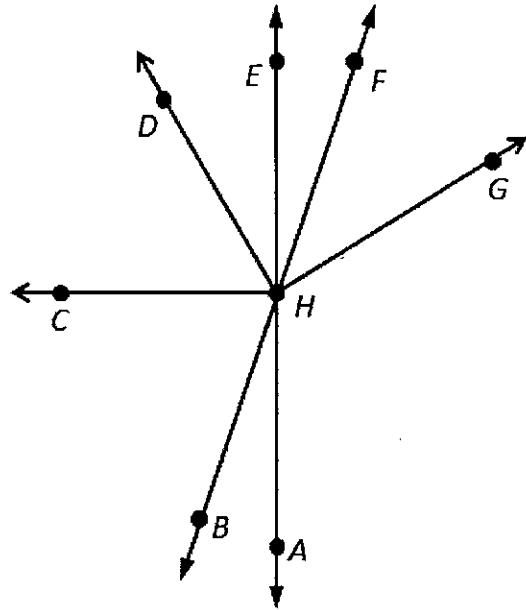


Name: _____

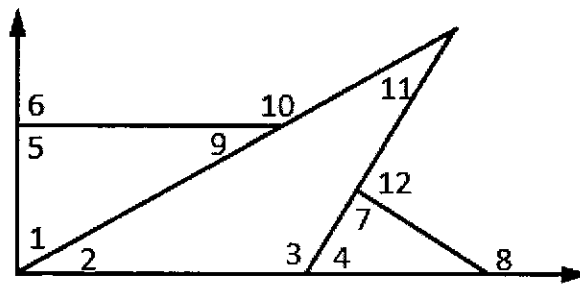
Classifying Angles

Tell if the angle appears to be *acute*, *right*, *obtuse*, or *straight*.

1. $\angle CHF$ _____
2. $\angle CHA$ _____
3. $\angle EHF$ _____
4. $\angle DHC$ _____
5. $\angle BHF$ _____
6. $\angle BHA$ _____
7. $\angle EHG$ _____
8. $\angle CHG$ _____
9. $\angle AHE$ _____
10. $\angle GHA$ _____



Write each numbered angle in the correct column. Two are done for you.



Acute Angles	Right Angles	Obtuse Angles
$\angle 1$	$\angle 5$	