Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_ Block \_\_\_\_\_\_\_\_

SOL 8.6: Classwork

1) Finding Measures of Angles

In the figure to the right, *m ll n* and *t* is a transversal.t

If m∠2 = 74°, find the measure of:

 1 2 m

m∠1= m∠3= 4 3

 5 6 n

m∠4= m∠5= 8 7

m∠6= m∠7=

2) Use the figure from question 1 to answer the following questions:

1. ∠1 and ∠2 are a pair of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ angles.
2. ∠5 and ∠7 are a pair of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ angles.

3)

a) In the figure to the right, ∠1 and ∠2 are \_\_\_\_\_\_\_\_\_\_\_ angles.

b) If the measure of ∠1 is 640, what is the measure of ∠2? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3

 1 2

 4

4) What are complementary angles? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5) What are supplementary angles? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a) Determine the measure of ∠CED. \_\_\_\_\_\_\_\_\_\_\_\_

b) Determine the measure of ∠AEC.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) ∠CED and ∠AEC are \_\_\_\_\_\_\_\_\_\_\_\_ angles.

d) ∠CED and ∠BEC are \_\_\_\_\_\_\_\_\_\_\_\_ angles.

6)

 B

 C

 580

 A D

 E