

# GeoCaching

Name \_\_\_\_\_

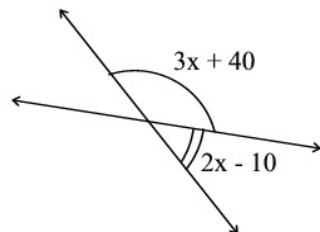
**ANSWER Sheet**

Show all work on this paper. There is a printable "Certificate" available in the last box. To start, go to

<http://mathbits.com/caching/geoopencache1.html>

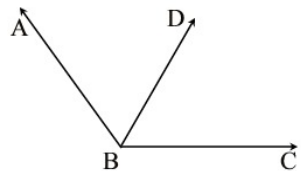
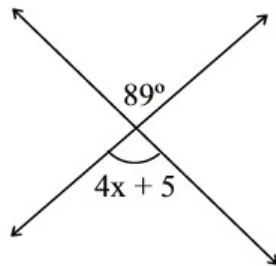
**Box 1:**

1. Assume the two lines shown at the right to be straight. Find the size of the two indicated angles.



2.

$\overline{BD}$  bisects  $\angle ABC$   
 $m\angle ABD = 14x + 20$   
 $m\angle DBC = 22x - 12$   
 Find  $x$

3. Find  $x$ .**Box 2:**

a. \_\_\_\_\_ e. \_\_\_\_\_

b. \_\_\_\_\_ f. \_\_\_\_\_

c. \_\_\_\_\_ g. \_\_\_\_\_

d. \_\_\_\_\_ h. \_\_\_\_\_

**Box 3:**

1.  $m\angle 1 =$  \_\_\_\_\_  $m\angle 2 =$  \_\_\_\_\_ 2. \_\_\_\_\_  
 $m\angle 3 =$  \_\_\_\_\_  $m\angle 4 =$  \_\_\_\_\_  
 $m\angle 6 =$  \_\_\_\_\_  $m\angle 7 =$  \_\_\_\_\_  
 $m\angle 8 =$  \_\_\_\_\_  $m\angle 9 =$  \_\_\_\_\_  
 $m\angle 10 =$  \_\_\_\_\_  $m\angle 11 =$  \_\_\_\_\_  
 $m\angle 12 =$  \_\_\_\_\_  $m\angle 14 =$  \_\_\_\_\_

**Box 4:**

1. \_\_\_\_\_ 2. \_\_\_\_\_

3. \_\_\_\_\_

**Box 5:**

1.

2. \_\_\_\_\_

3. \_\_\_\_\_

**Box 6:**

1.

2.

3.

**Box 7:**

1.

2.

3. \_\_\_\_\_

**Box 8:**

1.

2.

3.

**Box 9:**

1.

2.  $x = \underline{\hspace{1cm}}$

$m\angle 1 = \underline{\hspace{1cm}}$

$m\angle 2 = \underline{\hspace{1cm}}$

$m\angle 3 = \underline{\hspace{1cm}}$

$m\angle 4 = \underline{\hspace{1cm}}$

**Box 10:** Complete this URL of the winning box!  
[http://mathbits.com/caching/G\\_\\_\\_\\_\\_](http://mathbits.com/caching/G_____).html

Remember that there is a printable "Certificate".