

# Lesson 11 ~ Parallel Lines and Similar Triangles

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

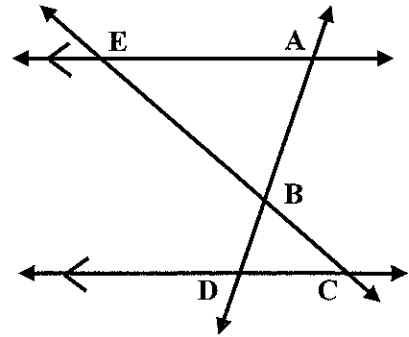
1. Use the diagram at the right.

a. What special angle pair do  $\angle BCD$  and  $\angle BEA$  represent?

b. Circle the correct term:

$\angle BAE$  and  $\angle BDC$  are congruent/supplementary.

c. Fill in the blank:  $\triangle EAB \sim \triangle$  \_\_\_\_\_



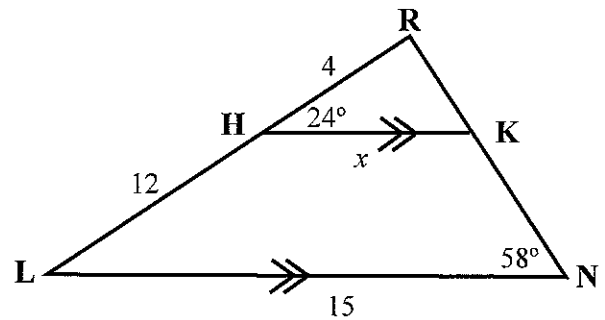
2. Use the diagram at the right.

a. What angle besides  $\angle LNK$  measures  $58^\circ$ ?

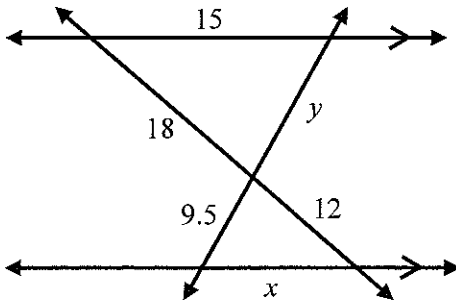
b. What is the measure of  $\angle HLN$ ?

c. What is the measure of  $\angle R$ ?

d. Find the value of  $x$ .



3. Find the values of  $x$  and  $y$  in the pair of similar triangles.



4. Find the measure of  $a$ ,  $b$ ,  $c$ ,  $d$  and  $e$ .

