



## Puzzle Time

### Why Did The Forest Ranger Change Jobs?

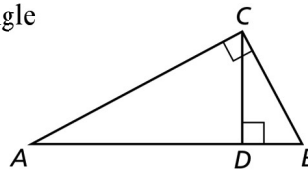
A	B	C	D	E	F
G	H	I			

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

26.5 LEAF
bisector WAS
geometric HE
9.1 TIME
15.5 TO
$\triangle CBD$ WANTED
18.8 FOREST
7.1 OVER
27.6 END

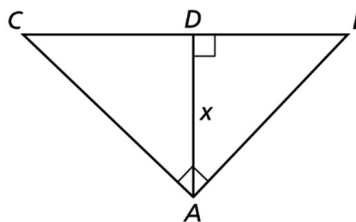
Complete the sentence.

- If the \_\_\_\_\_ is drawn to the hypotenuse of a right triangle, then the two triangles formed are similar to the original triangle and to each other.
- In a right triangle, the altitude from the right angle to the hypotenuse divides the hypotenuse into two segments. The length of the altitude is the \_\_\_\_\_ mean of the lengths of the two segments.
- Identify the smallest similar triangle using the diagram for  $\triangle ABC$ .



Find the value of  $x$ . Round your answer to the nearest tenth.

- $AC = 63, AB = 16, CB = 65$
- $AC = 12, AB = 5, CB = 13$
- $AC = 15, AB = 8, CB = 17$



Find the geometric mean of the two numbers. Round your answer to the nearest tenth.

- 15 and 24
- 18 and 30
- 20 and 35

length THE
23.2 NEW
$\triangle CBD$ GRASS
altitude BECAUSE
16.5 GREENER
23.1 WITH
4.6 TURN
5.4 TREE
19.0 A