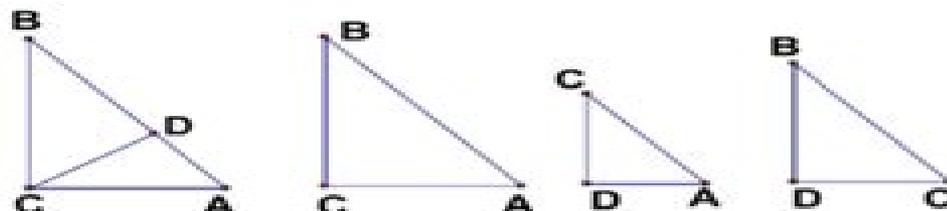


## 8-4 SIMILARITY IN RIGHT TRIANGLES (p. 439-444)

There is no need to do the Investigation.



When altitude  $\overline{CD}$  is drawn to the hypotenuse of  $\triangle ABC$  in the first diagram on the left, three similar triangles are formed. Let's see why?

1. Why is  $\triangle BCA \sim \triangle CDA$ ?
2. Why is  $\triangle BCA \sim \triangle BDC$ ?
3. After answering the first two questions, why is  $\triangle CDA \sim \triangle BDC$ ?
4. How do the three triangles relate to each other?

The first result from the investigation of the three right triangles is summarized in Theorem 8-3.

### Theorem 8-3

The altitude to the hypotenuse of a right triangle divides the triangle into two triangles that are similar to the original triangle and to each other.

In the proportion  $\frac{a}{b} = \frac{c}{d}$ ,  $b$  and  $c$  are called the means and  $a$  and  $d$  are called the extremes of the proportion.

In the proportion  $\frac{a}{x} = \frac{x}{b}$ , notice that the means are equal (they are both equal to  $x$ ). This type of proportion is sometimes referred to as a mean proportion. Also,  $x$  is referred to as the geometric mean of  $a$  and  $b$  (recall that  $a$  and  $b$  are the extremes).

By the cross-product property,  $x^2 = ab$ . Why is  $x = \sqrt{ab}$ ?

So, to find the geometric mean of two numbers, take the square root of the product of the two numbers.

# Practice 8 4 Similarity In Right Triangles

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