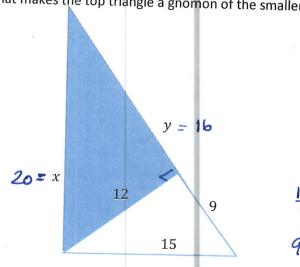
Instructions: Show all work. Use exact answers unless otherwise directed to round.

1. Find the values of x and y that makes the top triangle a gnomon of the smaller one.



$$\frac{12}{9} = \frac{x}{15}$$

2. Madison County has a population of 34,522 people. The county hospital is interested in estimating the number of people in the county with blood type A-. To do this, they test blood from 253 patients. Of these, 17 have type A-. Use this to estimate the number of people in the county with A- blood.

$$\frac{17}{253} = \frac{\times}{34,522}$$

around 2320 people have type A-.