

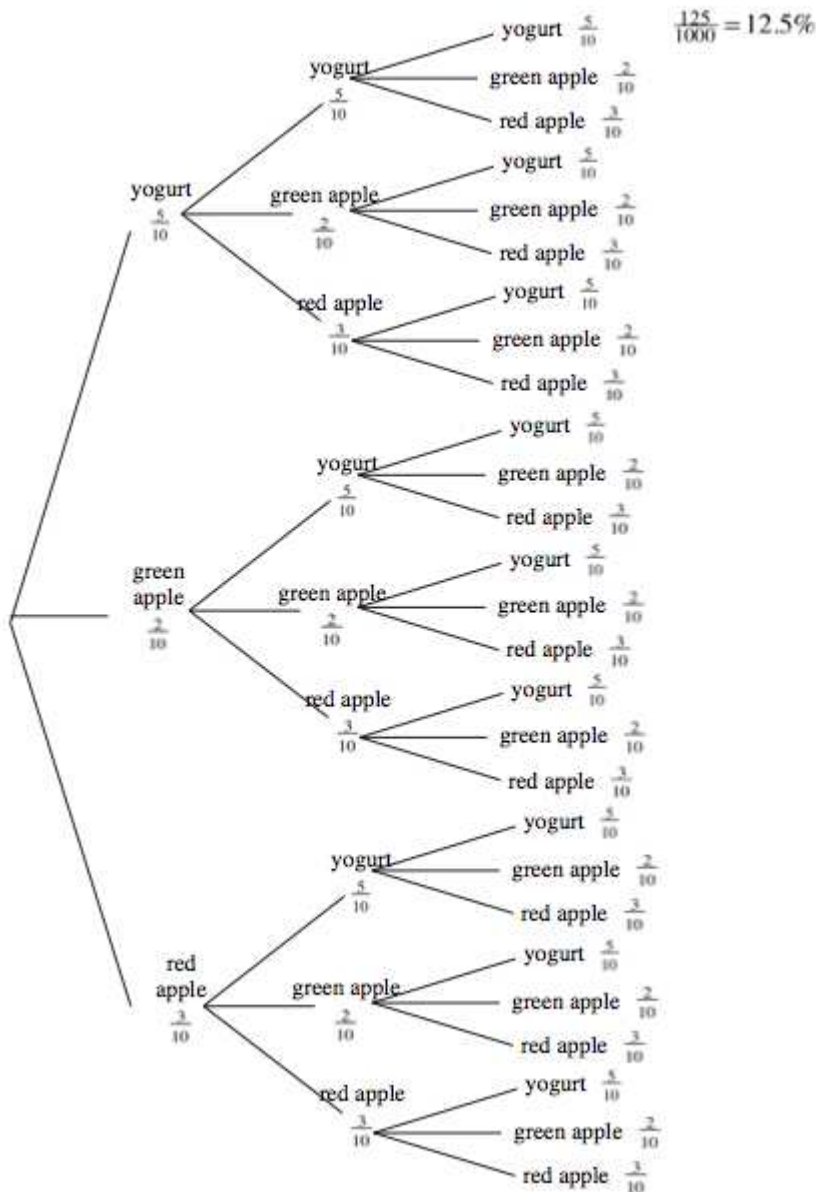
**5-89.** They must have equal length. Since a side opposite a larger angle must be longer than a side opposite a smaller angle, sides opposite equal angles must be the same length.

**5-90.**  $\approx 10.6$  mm

**5-91.** 72 square units

**5-92.** 12.6

**5-93.** See tree diagram below (an area model is not practical).  $P(\text{three yogurts}) = 12.5\%$ .  $100\% - 12.5\% = 87.5\%$  chance of *not* getting three yogurts.



**5-94. See below.**

a.  $x = \frac{45}{4} = 11.25$

b.  $x = -10$  or  $x = 10$

c.  $x = 1.3$

d. No solution

**5-95. (-2, 4)**