

**Key for Chapter 10 problems 10.32, and 10.40.
Graded out of 20 points.**

10.32) a) Since we know that 0.12 did not complete high school, 0.31 completed high school and *nothing beyond high school*, while 0.29 have at least a bachelors degree. Anyone that completed high school and some education beyond high school (but no bachelors degree) are missing from the above list. The probabilities listed above add to 0.72, leaving 0.28 for the people with high school and some post-high school education. So **0.28**.

b) Since 0.12 did not complete high school we know that $1-0.12=0.88$ did complete high school. Hence, **0.88**, or 88%, have at least a high school diploma.

10.40) a) Since the probabilities listed add to 0.76. Since the totality must add to 1 we know that the probability of drawing a blue candy is $1-0.76=0.24$.

b) The probability of not drawing a brown candy is equal to $1-(\text{probability of drawing brown})=1-0.13=0.87$.

c) The probability of drawing either yellow, orange or red is $0.14+0.20+0.13=0.47$.

COMMON MISTAKES

1) Many people forgot in 10.32 part b to add in the 0.28 from part a. **(-3 pts)**