CHECK ANSWERS

ch.3 #12-15 yes yes yes no $\frac{1}{12}$ $\frac{7}{12}$

13b→ fill in tree diagram

14c, 15b→explain 39 61

multiply values from each branch

because spinners are not divided equally

$\frac{2}{9}+\frac{1}{6}=\frac{7}{18}\approx 0.39\ or\ 39\%$

$\frac{1}{9}+\frac{1}{3}+\frac{1}{6}=\frac{11}{18}\approx 0.61\ or\ 61\%$

$\frac{1}{6}+\frac{1}{8}=\frac{7}{24}\approx 29\%$ $\frac{1}{6}+\frac{1}{6}=\frac{2}{6}\ or\ \frac{1}{3}\approx 33\%$

$\frac{1}{4}+\frac{1}{8}=\frac{3}{8}\approx 38\%$

ch.3 #17-22

19a→explain

19b→sketch tree diagram or other model

Impossible, sum greater than 180°

Impossible, hypotenuse too short

Not independent $\frac{9}{19}$ $\frac{1}{2}$ $\frac{1}{535}\approx .19\%$

Congruent, ASA≅ (draw flowchart to prove)

Similar, AA~

Neither, angles are not equal

$\frac{1}{8}$ $\frac{3}{8}$ $\frac{3}{8}$ $\frac{7}{8}$

Same, both have a probability of $\frac{4}{8}\ or\ \frac{1}{2}$

$3y^2 + 2xy – 12x – 22y + 24$

$3x^2 + 17x + 10$