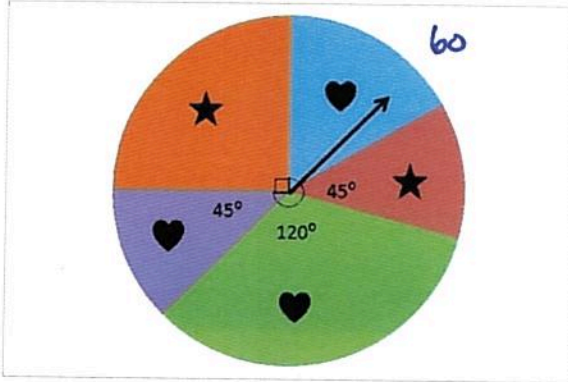Name _____ **KEY** _____

Instructions: Show all work (that work can be in the form of a spreadsheet submitted along with the quiz or done by hand on paper; if you use your calculator, say what functions you used). Report answers to the standard number of decimal places, or to the number requested in the problem. Be sure to answer all parts of the questions, including requests for interpretation and explanations. Be as thorough as possible.

1. Consider the spinner shown below:

a. Assuming that the spinner is fair, what is the probability of getting purple after spinning?

$$\frac{45}{360} = \frac{1}{8}$$

b. What is the probability of getting a heart?

$$\frac{45+120+60}{360} = \frac{5}{8}$$

$$90 + 45 + 45 + 120 = 300$$
$$360 - 300 = 60$$

c. What is the probability of getting a result that is not blue?

$$\frac{300}{360} = \frac{5}{6}$$

d. What is the probability of getting a diamond?

$$0$$

e. What is the probability of getting a heart or a star?

$$1 \quad \text{or} \quad 100\%$$