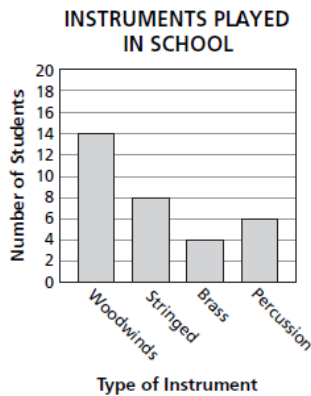


NAME _____

HW # _____

- 1) A 6-sided cube with letters A, B, C, D, E and F is rolled. What is the theoretical probability of rolling a vowel?
- 2) If you roll a number cube numbered 1 - 6, which event listed has a probability of 0?
 - a) $\# > 4$
 - b) rolling a 1
 - c) rolling an 8
 - d) rolling a prime #
- 3) You flip a coin 10 times. It lands on heads 7 times and on tails 3 times. On the next flip, what is the...
 - a) theoretical probability of landing on a head?
 - b) experimental probability of landing on a head?

- 4) The graph below shows the type of instruments played by students in school. Janelle is chosen to perform a solo. Based on the data, what is the experimental probability that she plays a stringed instrument?



- a) $\frac{6}{24}$
- b) $\frac{8}{24}$
- c) $\frac{8}{32}$
- d) $\frac{6}{32}$

- 5) The probability that it will rain on Tuesday is $\frac{4}{5}$. What is the probability that it will not rain on Tuesday?
- 6) Marilyn selects a piece of candy at random from a jar that contains four peppermint, five cherry, three butterscotch, and two lemon candies. What is the probability that the candy she selects is *not* a cherry candy?
- 7) John rolls a number cube 40 times. The number 4 is rolled 8 times.

- a. What is the experimental probability of rolling a 4?
- b. Ignoring this experiment, what is the theoretical probability of rolling a 4 on a die?