

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? $\frac{2}{6}$ or $\frac{1}{3}$

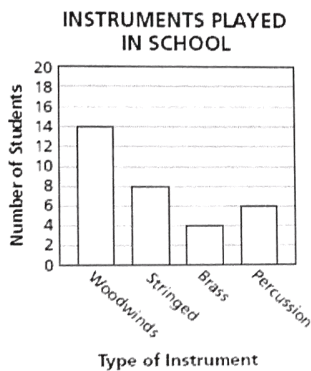
2) If you roll a number cube numbered 1 - 6, which event listed has a probability of 0?

- 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? $\frac{1}{2}$
b) experimental probability of landing on a head? $\frac{7}{10}$

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? $\frac{1}{5}$

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? $\frac{9}{14}$

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? $\frac{8}{40}$

b. Ignoring this experiment, what is the theoretical probability of rolling a 4 on a die? $\frac{1}{6}$