10.1 Intro to Prob **Corrective Assignment #1** **NAME:**_____

Describe the likelihood of an event as impossible, unlikely, equally likely, likely or certain.

1. The school chess club wins $\frac{7}{8}$ of the time. _____
2. It snows on $\frac{9}{10}$ of the days in July. _____
3. There is a 0% chance that your feet will shrink overnight_____
4. The probability that the sun sets tomorrow is 1. _____

Find each theoretical probability as a FRACTION in SIMPLEST FORM, if you roll a standard number cube.

5. P (not 1) = _____ 6. P (2 or 5) = _____ 7. P (1, 2 or 5) = _____

8. P (<u>not</u> a 1 or not 2) = _____ 9. P (odd number) = _____ 10. P(< 5) = _____

Suppose a number cube is rolled 240 times. About how many times should each event occur?

11. You roll a 2 or 3. 12. You roll an odd number.

Find the **experimental probability** of each event based off of counting a bag of M&Ms

colors	red	blue	green	brown	yellow
# of M&Ms	26	28	11	22	23

13. P (brown) = _____ 14. P (Not green) = _____ 15. P (brown or green) = _____

A bag of marbles contains: 5 green, 2 blue, 2 yellow, 1 purple and 10 red. Write each answer as a DECIMAL.

16. P (blue) = _____ 17. P (not red) = _____ 18. P (green) = _____

ANSWERS TO 10.1 CORRECTIVE ASSIGNMENT

1. likely	2. likely	3. impossible	4. certain	5. $P(\text{not } 1) = \frac{5}{6}$	6. $P(2 \text{ or } 5) = \frac{1}{3}$
7. $P(1, 2, 5) = \frac{1}{2}$	8. $P(\text{not 1 or not 2}) = \frac{2}{3}$	9. $P(\text{odd}) = \frac{1}{2}$	10. $P(<5) = \frac{2}{3}$	11. about 80 times	12. about 120 times
13. $P(\text{brown}) = \frac{1}{5}$	14. $P(\text{not green}) = \frac{9}{10}$	15. $P(\text{brown or green}) = \frac{3}{10}$	16. $P(\text{blue}) = 0.1$	17. $P(\text{not red}) = 0.5$	18. $P(\text{green}) = 0.25$