

Corrective Assignment #2

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. The Cincinnati Bengals win 50% of their home games. _____
3. There is a 30% chance it will rain overnight _____
4. The probability that you will have to retake Math 7 is 0. _____

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



5. P (not 3) = _____
6. P (2, 4, or 5) = _____
7. P (8) = _____
8. P (1) = _____
9. P (Even number) = _____
10. P (>5) = _____

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

11. You roll a 1, 2 or 3.
12. A 4 is rolled.

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

colors	red	blue	green	brown	yellow
# of M&Ms	14	0	17	12	7

13. P (Yellow) = _____
14. P (Not Blue) = _____
15. P (brown or Red) = _____

A bag of marbles contains: 50 green, 12 blue, 2 yellow, 10 purple and 10 red. Write each answer as a DECIMAL.

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

13. P(yellow) = $\frac{50}{200}$	14. P(not blue) = 1	15. P(brown or red) = $\frac{22}{200}$	16. P(blue) = 0.14	17. P(not red) = 0.88	18. P(green) = 0.20
7. P(8) = 0	8. P(1) = $\frac{6}{10}$	9. P(even) = $\frac{2}{10}$	10. P(>5) = $\frac{6}{10}$	11. about 120 times	12. about 40 times
1. likely	2. equally likely	3. unlikely	4. impossible	5. P(not 3) = $\frac{6}{5}$	6. P(2, 4 or 5) = $\frac{2}{10}$