

Warm up / Pre-Quiz

1. 2 Red, 3 Blue, 1 Green marble in the 'sample space' bag.

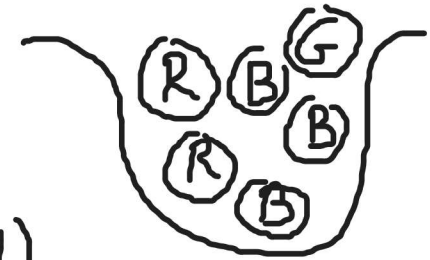
a. Determine the probability of drawing, on the first draw, a Red Marble

$$P(\text{Red}) =$$

b. Replace the marble. Determine $P(\text{Draw Not Red Marble})$ i.e. $P(\overline{\text{Red}})$

c. Replace the marble. Determine $P(\text{Draw Red Marble OR Green Marble})$

d. Bonus. If you draw a red on the first draw, put it in your pocket and draw again, what is prob of drawing another red on a second draw

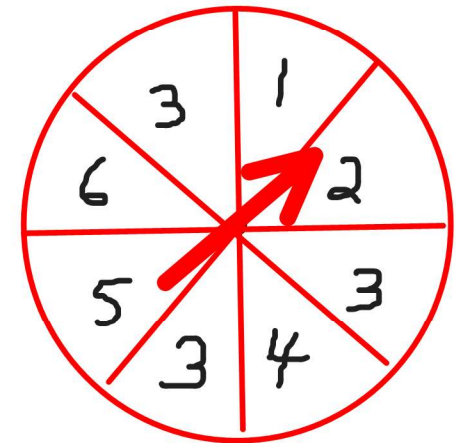


Express Prob as % & as fraction
 (nearest 0.01%)

2. Spinner:

a. Determine the probability of spinning an outcome of "3" on this 'fair' spinner

b. If you spin the spinner for 500 trials (plays), how many times might you expect the spinner to give an outcome of "3"



3. Simplify: (manually preferred!) (use a calculator if you must)

a) $\frac{1}{4} + \frac{3}{8} =$

b) $2\frac{1}{2} + \frac{1}{8} =$

4. Using the compound interest formula $A = P \cdot \left(1 + \frac{r}{s}\right)^{(n \cdot s)}$

Determine how much a \$4,000 investment will be worth after 8 years if it accumulates interest at an annual percentage rate of 9% compounded quarterly.

5. Three hot dogs and one dollar coke costs a total of \$8.20. Determine how much one hot dog costs.

6. Sketch the following lines:

