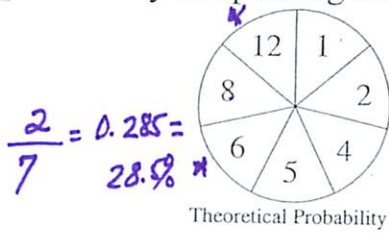


7) The spinner is spun. What is the probability of spinning a 6 or 12?



$$\frac{2}{7} = 0.285 = 28.5\%$$

$$\begin{array}{r} .285 \\ 7 \overline{) 2.000} \\ \underline{14} \\ 60 \\ \underline{56} \\ 40 \\ \underline{35} \\ 5 \end{array}$$

10) I

Robert has 12 pairs of socks in a drawer: 4 blue, 3 black, 3 red and 2 beige. One morning, he reaches into the drawer without looking and pulls out a red pair of socks. Then he tosses the socks back into the drawer and selects another pair of socks from the drawer without looking. What is the probability that he will NOT draw another pair of red socks?

$$\frac{9}{12} = \frac{3}{4}$$

$$4 + 3 + 2 = 9$$

8)

Danielle randomly surveyed 150 seventh-grade students about their favorite snack. Of the students she surveyed, 25 chose fruit as their favorite snack, 50 chose chips, 30 chose candy, 35 chose ice cream, and 10 chose pastries. If Danielle surveyed all 1,200 seventh-grade students, how many could she expect to choose candy as their favorite snack?

$$p(\text{candy}) = \frac{30}{150} = \frac{1}{5} \cdot \frac{220}{1} = 220$$

220 students would expect to choose candy as their favorite

11)

2	4	6	8	10	12

= 24

Experimental Probability

What is the experimental probability of rolling a 2 or 6?

$$\frac{8}{24} = \frac{1}{3} = .33 = 33\%$$

9)

A bag contains 10 black marbles and 6 red marbles. If a red marble is drawn and not put back, what is the probability of selecting a black marble from the bag?

$$\frac{10}{15} = \frac{2}{3}$$

(Tot: 16)