3) The following table shows how many customers bought certain brands of tires at an auto store during a 3-month period of time. Use the table to answer questions 1–3.

Tire Sales, January–March

Brand	Number Sold
X	450
Y	210
Z	600
XX	240
Total	1,500

If the auto store has about 8,000 customers a year, what is a good prediction for the number of customers that will buy Brand Z tires?

A 4,800
B. 3,200
C 2,500
D 1,700

$\frac{600}{1500} = \frac{2}{5}$

$\frac{2}{5} \cdot \frac{1600}{8000} = 3,200$

4) At the end of the year, the auto store owner ordered 2,000 new tires for the store, based on the number of tires sold. What is a good prediction for how many Brand XX tires the store owner would order?

A 650
B 500
C 480
D. 320

$\frac{240}{1500} = \frac{24 \div 3}{150 \div 3} = \frac{8}{50}$

$\frac{8}{50} \cdot \frac{40}{2000} = 320$

5) The following cubes are placed in a bag: 3 yellow, 3 blue, and 5 red, and 4 green. What is the probability of choosing a blue cube?

Tot: 15

$\frac{3}{15} = \frac{1}{5}, .20 = 20\%$

Theoretical Probability

6)

2	4	6	8	10	12
|||	||||	||||	|||	||||	||||

Tot:

Experimental Probability

What is the experimental probability of rolling a factor of 24?

24
1
2 (12)
3 (4)
2 2

24
1 | 24
2 | 12
3 | 8
4 | 6

$\frac{20}{24} \overset{4}{=} \frac{5}{6}$