Name_____ Date_____

Unit 6 – Review

You randomly choose one game piece.

1a) Find the number of ways of choosing green.

1b) Find the favorable outcomes of choosing green.
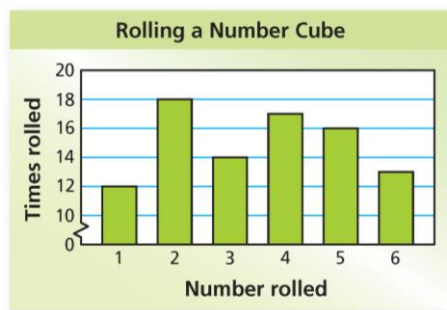
2a) Find the number of ways of choosing NOT yellow.

2b) Find the favorable outcomes of choosing NOT yellow.

3) Use the Fundamental Counting Principle to find the total number of different sunscreens possible.

Sunscreen	
SPF	10, 15, 30, 45, 50
Type	Lotion, Spray, Gel

Use the bar graph to find the experimental probability of the event.

4) Rolling a 1 or a 2

5) Rolling an odd number

6) *Not* rolling a 5

Use the spinner to find the theoretical probability of the event(s).

7) Spinning an even number

8) Spinning a 1 and then a 2

You randomly choose one chess piece. Without replacing the first piece, you randomly choose a second piece. Find the probability of choosing the first piece, then the second piece.

9a)   A bishop and then another bishop

Knight   Queen   King   Bishop   Rook
Pawn

9b)   Is this an independent or dependent event?

10a)   A king then a queen

10b)   Is this an independent or dependent event?

11)   You want to estimate the number of students in your school who prefer to bring a lunch from home rather than buy one at school. You survey fi ve students who are standing in the lunch line. Determine whether the sample is biased or unbiased.

        Explain.

The double box-and-whisker plot shows the ages of the viewers of two television shows in a small town.

12a)   What is the interquartile ranges for both shows?

Show A
Show B
Age (years)
20   25   30   35   40   45   50   55
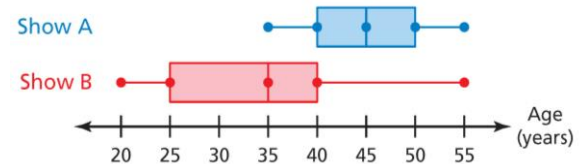
12b)   What fraction of the people in Show A are between the ages of 40 and 50 years old?

1. **a.** 1   **b.** green

2. **a.** 5
   b. red, blue, red, green, blue

3. 15

4. $\frac{1}{3}$, or about 33.3%

5. $\frac{7}{15}$, or about 46.7%

6. $\frac{37}{45}$, or about 82.2%

7. $\frac{4}{9}$, or about 44.4%

8. $\frac{1}{81}$, or about 1.2%

9. $\frac{1}{120}$, or about 0.8%

10. $\frac{1}{240}$, or about 0.4%

11. biased; The sample size is too small and students standing in line are more likely to say they prefer to buy their lunches at school.