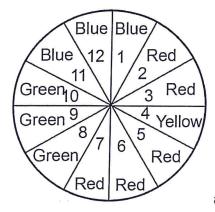
## Algebra 2 Bellwork Thursday, May 28, 2015

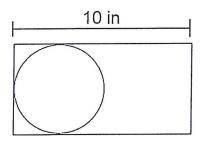
- 1. In a shipment of 20 computers, 3 are defective. Three computers are randomly selected and tested. What is the probability that all three are defective if the you don't return the computer after testing it?
- 2. You'll spin the spinner once. Find each probability as a fraction.



- a. P(Green or Prime)=
- b. P(Red or Odd)=

c. P(Green and Even)=

- d. P(Multiple of 4 and odd)=
- 3. The area of this rectangle is 40 in<sup>2</sup>. Find the probability that a dart randomly lands in the rectangle but not in the circle. Give the answer as a percent of the nearest tenth.



- 4. In your desk drawer you have the following pens: 6 blue, 5 red, and 7 black. A student asks to borrow a pen so you randomly grab one and give it to them. A minute later another student asks for a pen and you randomly give them one. Find each probability as a fraction.
- a) P(Blue and Red)=

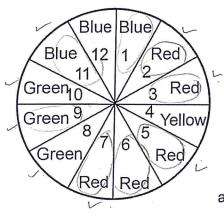
- b) P(Black and Black)=
- 5. You are playing fantasy football with some friends. You have to create a team by choosing from a list of 14 Quarterbacks, 20 Running Backs, and 15 Receivers. Find the number of possible fantasy teams you could create if you must pick 1 Quarterback, 3 Running Backs, and 2 Receivers.
- 6. In my next at bat of the baseball game there is a  $\frac{2}{13}$  chance that I hit a home run and a  $\frac{4}{9}$  chance that I get a base hit. Find the following probability as a fraction. P(hit home run or get base hit)=
- 7. Use this set of data: 12,16,8,22,35,16,40,8,37,12,19,14,2 Find the Mean, Median, Mode, and Range. Round to the nearest hundredth when neccessary.

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1. In a shipment of 20 computers, 3 are defective. Three computers are randomly selected and tested. 

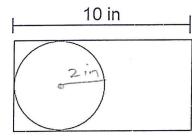
2. You'll spin the spinner once. Find each probability as a fraction.



- c. P(Green and Even)=
- a. P(Green or Prime)=  $\frac{8}{12}$  b. P(Red or Odd)=  $\frac{8}{12}$  d. P(Multiple of 4 and odd)=  $\frac{0}{12}$

3. The area of this rectangle is 40 in<sup>2</sup>. Find the probability that a dart randomly lands in the rectangle but not in the circle. Give the answer as a percent of the nearest tenth.





Horse as a percent of the hearest tenth.

$$\frac{1}{1} \text{ proh} = \frac{\text{Rect} - \text{Circle}}{\text{Rect}} = \frac{40 - 4\pi}{40} = \frac{168.60\%}{40}$$

Area of Roct =  $40 \text{ in}^2$ 

Area of circle = TI(z)2 = 4TT in 2

4. In your desk drawer you have the following pens: 6 blue, 5 red, and 7 black. A student asks to borrow a pen so you randomly grab one and give it to them. A minute later another student asks for a pen and you randomly give them one. Find each probability as a fraction. b) P(Black and Black)=

a) P(Blue and Red)=

P(Blue and Red)=
$$\frac{6}{18} \cdot \frac{5}{17} = \frac{30}{306}$$
EVENTS
$$= \frac{7}{18} \cdot \frac{6}{17} = \frac{42}{306}$$

5. You are playing fantasy football with some friends. You have to create a team by choosing from a list of 14 Quarterbacks, 20 Running Backs, and 15 Receivers. Find the number of possible fantasy teams

P(hit home run or get base hit)=

$$= \frac{2}{13} + \frac{4}{9} = \frac{2}{13} \cdot \frac{9}{9} + \frac{4}{9} \cdot \frac{13}{13} = \frac{18 + 52}{117} = \boxed{\frac{70}{117}}$$

7. Use this set of data: 12, 16, 8, 22, 35, 16, 40, 8, 37, 12, 19, 14, 2

Find the Mean, Median, Mode, and Range. Round to the nearest hundredth when neccessary.

$$\bar{\chi} = 18.54$$

1

Median = 110

Range = 
$$40 - 2 = 38$$