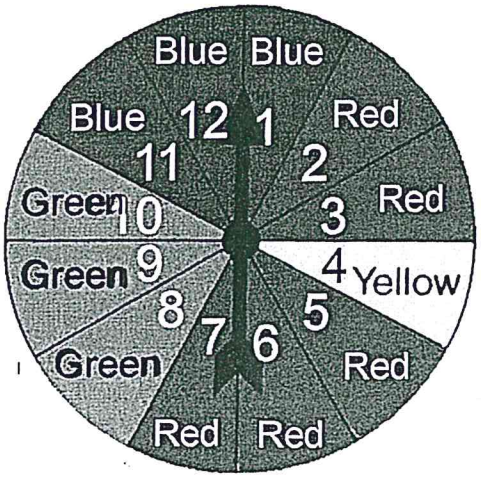
Algebra 2 Bellwork Thursday, April 14, 2016

Use the spinner below for questions 1-4. You will spin the spinner one more time. Give each probability as a fraction.



1. P(Green or Prime) =

2. P(Red or Odd) =

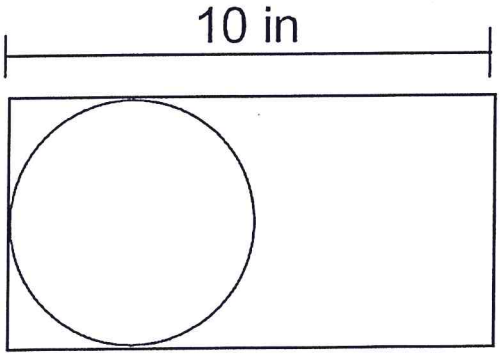
3. P(Green and Even) =

4. P(Multiple of 4 and odd) =

5. The probability that you don't eat breakfast this morning is $\frac{4}{9}$ and the probability that you fall asleep in first hour is $\frac{6}{7}$. Find the following probability as a percent rounded to the nearest hundredth.

P(don't eat breakfast or fall asleep in 1st hr) =

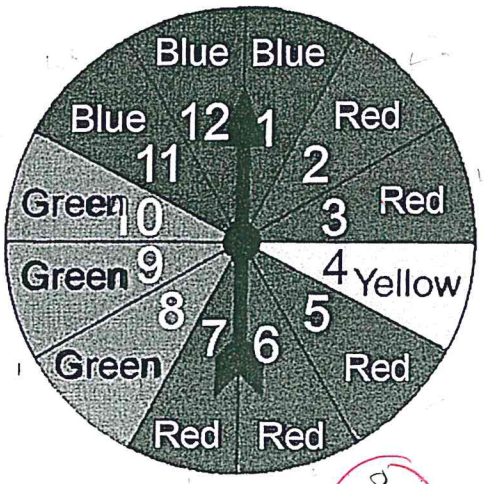
6. The area of the rectangle below is 40 in^2. Find the probability that a dart randomly lands in the rectangle but not in the circle. Give the answer as a percent to the nearest tenth.



P(in rectangle but not circle) =

Algebra 2 Bellwork Thursday, April 14, 2016 ANSWERS

Use the spinner below for questions 1-4. You will spin the spinner one more time. Give each probability as a fraction.



1. P(Green or Prime) = $\frac{8}{12}$

2. P(Red or Odd) = $\frac{8}{12}$

3. P(Green and Even) = $\frac{2}{12}$

4. P(Multiple of 4 and odd) = $\frac{0}{12}$

5. The probability that you don't eat breakfast this morning is $\frac{4}{9}$ and the probability that you fall asleep in first hour is $\frac{6}{7}$. Find the following probability as a percent rounded to the nearest hundredth.

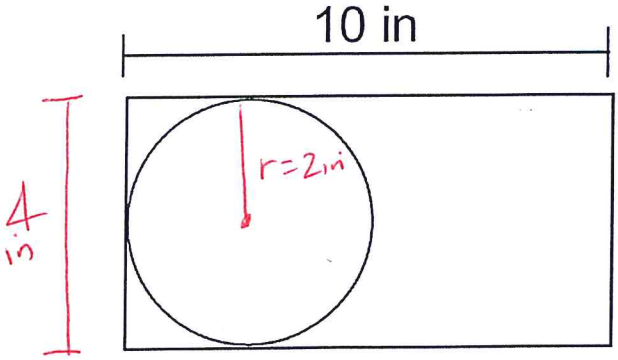
P(don't eat breakfast or fall asleep in 1st hr) =

these are Not mutually Exclusive

$P(A) + P(B) - P(A \text{ and } B)$

$\frac{4}{9} + \frac{6}{7} - \frac{4}{9} \cdot \frac{6}{7} =$ 92.06%

6. The area of the rectangle below is 40 in^2. Find the probability that a dart randomly lands in the rectangle but not in the circle. Give the answer as a percent to the nearest tenth.



P(in rectangle but not circle) = $\frac{\text{Rectangle} - \text{Circle}}{\text{Rectangle}}$

$= \frac{40 - \pi(2)^2}{40} =$ 68.6%