

Practice #29 Alg 2 Tuesday, May 26 to Thursday, May 28 2020

Answer these 7 questions about probability.

1. The numbers from 1-30 are in a bag. You will randomly take out one of the numbers. Find each probability as a fraction without reducing.

a) $P(\text{Factor of } 20) =$

b) $P(\text{Multiple of } 6) =$

c) $P(\text{Odd and multiple of } 7) =$

d) $P(\text{Even or factor of } 12) =$

2. You will spin the spinner shown once. Find each probability as a fraction without reducing.



a) $P(\text{Multiple of } 3) =$

b) $P(\text{Red or even}) =$

c) $P(\text{Odd and Blue}) =$

d) $P(\text{Green or Yellow}) =$

3. People were asked to pick their single favorite music. The results of the survey are shown in the table. A person is picked at random. Find each probability as a fraction without reducing.

	Rock	Hip-Hop	Classical	Country	Total
Teens	13	40	3	8	64
Adults	37	5	6	11	59
Total	50	45	9	19	123

a) $P(\text{Adult and Country}) =$

b) $P(\text{Rock or Classical}) =$

c) $P(\text{Country and Teen}) =$

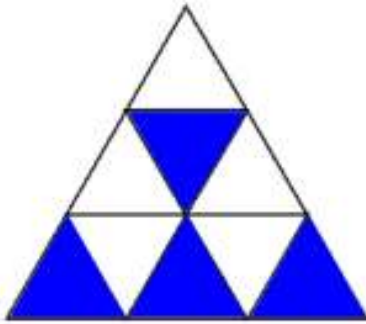
d) $P(\text{Hip-Hop or Adult}) =$

4. Use the data from problem #3. If 80 more people are surveyed predict the number that will pick Country as their favorite music. Round to the nearest whole number.

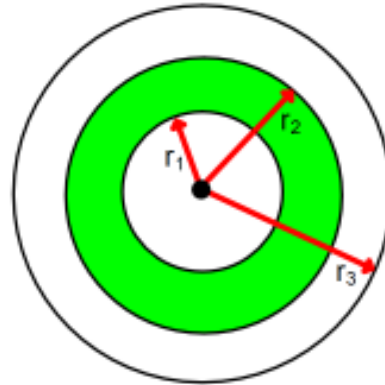
Answer = _____

For 5 to 7 find the probability that a dart hits each target and lands in the shaded region. Give answers as a percent to the nearest hundredth.

5. $P(\text{Shaded Region}) =$



6. $P(\text{Shaded Region}) =$



The length of each radii: $r_1 = 5, r_2 = 8, r_3 = 11$

7. $P(\text{Shaded Region}) =$

Two semicircles are inscribed in a rectangle. The radius of each semicircle is 5 cm.

