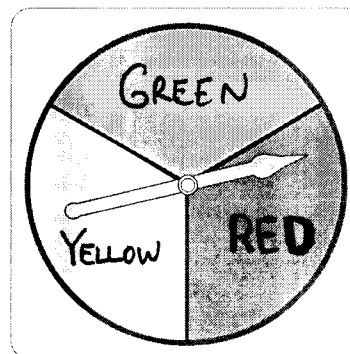


For Questions 1–4, the spinner shown is spun two times.

BE 1B - Monday 5-12-2008

Look ↑



- Write the sample space with all possible outcomes.
- Find the probability distribution of X , where X represents the number of times the spinner lands on green for $X = 0$, $X = 1$, and $X = 2$.
- Make a probability histogram for X .
- Do all possible outcomes have the same chance of occurring? Explain.
- Standardized Test Practice** On a random roll of two dice, what is the probability that the sum of the two numbers showing is greater than 10?

(A) $\frac{1}{6}$

(B) $\frac{1}{12}$

(C) $\frac{5}{36}$

(D) $\frac{1}{36}$

ANSWERS { • THURSDAY ⇒ EXAM 2 (Excellent review for semester exam) }

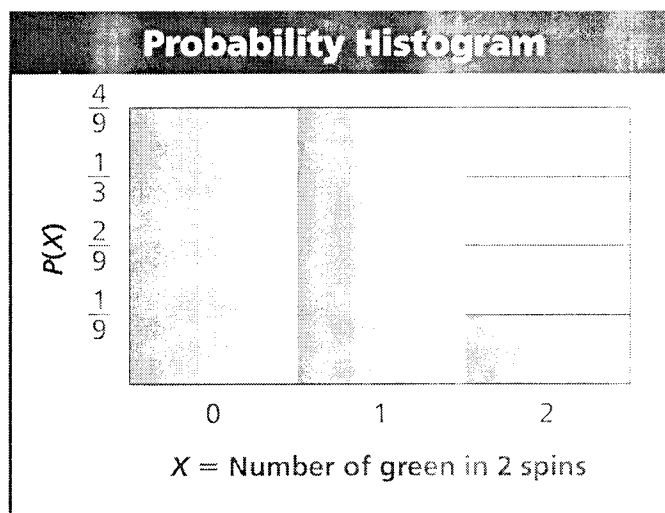
1. GG, GY, GR, YY, YG, YR, RR, RY, RG

3.

2. $\frac{4}{9}, \frac{4}{9}, \frac{1}{9}$

4. Yes; each choice is equally likely to occur.

5. B



IB $\Rightarrow$ Q4 Exam 2 Topics

Thurs. 5-15-08

Ch. 4-7/10-7 $\Rightarrow$ Arithmetic Sequences

$$a_n = a_1 + (n-1)d$$

Geometric Sequences

$$a_n = a_1 r^{n-1}$$

⚡

RELATED TO
EXPONENTIAL FUNCTIONS

Ch. 14 $\Rightarrow$ Probability

14-1 $\Rightarrow$ Counting Outcomes, FCP

14-2 $\Rightarrow$ Permutations / Combinations
(order) / (no order)

$${}_n P_r = \frac{n!}{(n-r)!} \quad / \quad {}_n C_r = \frac{n!}{(n-r)! r!}$$

14-3 $\Rightarrow$ Probability of Compound Events

14-4 $\Rightarrow$ Probability Distributions

14-5 $\Rightarrow$ Probability Simulations

$\hookrightarrow$ Dice Rolls - Exercise

Semester Exam $\Rightarrow$ Ch 10 $\Rightarrow$ discriminant / Quadratic Eqⁿ / Exp. Func
Ch 7 $\Rightarrow$ Systems of Linear Eq
Ch 11 $\Rightarrow$ Radicals / Pythagorean Th.
Dist. Form / Mid. Pt Form
Ch 8 $\Rightarrow$ Sci Not.

Review Study Guide for Ch. 14

Pages 789 to 792

Practice: Ch 14 Study Guide

Homework: Ch 14 Practice Test
Page 793 # 1 to 10
