

Homework 9.2 due May 24th

15 Questions

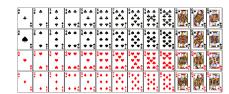
NAME:	
CLASS:	
DATE:	

1.	A piggy bank contains 4 quarters, 18 of pennies. A coin is chosen at random, chosen. Find each probability. P (penny, then dime).	
	a) (8/40)(18/40) = 9%	□ b) 26/79 = 33%
	c) (8/40)(18/39) = 9.2%	☐ d) 50%
2.	A piggy bank contains 4 quarters, 18 of pennies. A coin is chosen at random, chosen. Find each probability. P (quarter, then nickel).	
	a) (4/40)(10/39) = 2.6%	□ b) (4/40)(10/40) = 2.5%
	c) 14/80 =17.5%	☐ d) 25%
3.	A piggy bank contains 4 quarters, 18 of pennies. A coin is chosen at random, chosen. Find each probability. P (both dimes).	
	a) (18/40)(18/40)= 20.3%	□ b) (18/40)(17/39) = 19.6%
	c) 35/79 = 44.3%	☐ d) 32%
4.	A piggy bank contains 4 quarters, 18 of pennies. A coin is chosen at random, P (it is a dime or a penny).	
	a) 18/40 + 8/40 = 65%	□ b) 26/80 = 32.5%
	c) 26/100 = 26%	□ d) 8/40 + 18/39 = 66 1%

5.		A piggy bank contains 4 quarters, 18 dimes, 10 nickels, and 8 pennies. A coin is chosen at random, find the probability one coin drawn is either silver or a penny?		
	a) 32/40 + 8/40 = 100%	b) 32/80 + 8/80 = 50%		
	c) 0	☐ d) 14/40 + 8/40 = 55%		
6.	Find the probability of each set of ind drawing a black checker from a bag o checkers, replacing it, and then draw	of 6 black checkers and 4 red		
	a) 100%	□ b) (6/10)(4/10) = 24%		
	c) $(6/10)^2 = 36\%$	☐ d) 6/10 = 60%		
7.	Find the probability of each set of ind rolling a six on the first roll of a 1-6 no			
	number on the second roll of the san	ne cube.		
	a) (1/6)(1/2) = 1/12	b) (6/6)(1/2) = 1/2		
	c) (1/6)(1/3) = 1/18	☐ d) 25%		
8.		If you draw one card from a standard deck, what is P(card is red or a two)?		
	a) 1/2 = 50%	□ b) 30/52		
	c) 1/2 + 4/52 = 57.7%	d) 1/2 + 4/52 - (2/52) = 28/52 = 53.8%		
9.		If you draw one card from a standard deck, what is P(the card is odd-numbered and red)		
	a) 16/52= 30.8%	□ b) 8/52 = 15.4%		
	c) 50%	☐ d) 25%		

10.	A standard die is rolled twice. Find eac P (odd numbers both times)	:h probability.
□ ā	a) 1/2 = 50%	□ b) (1/2)(1/2) = 25%
	c) 1/2 + 1/2 = 100%	☐ d) 3/10 = 30%
11.	A standard die is rolled twice. Find eac P (both perfect squares)	:h probability.
	a) 1/2	□ b) 1/4
	z) 2/3	☐ d) 1/9
12.	A jar contains 8 green, 4 blue, 10 red, is randomly drawn, REPLACED, then a probability. P (red, then yellow)	
ā	a) 12/24 = 50%	□ b) (10/24)(2/24) = 3.5%
	c) (10/24) + (2/23) = 50.4%	☐ d) 25%
13.	A jar contains 8 green, 4 blue, 10 red, is randomly drawn, NOT replaced, the probability. P(both red)	
a	a) 20/24 = 83.3%	\Box b) $(10/24)^2 = 17.4\%$
	c) 10/24 = 41.7%	d) (10/24)(9/23) = 16.3%
14.		If you draw one card from a standard deck, what is P(the card is black or red)?
	a) 1/2 + 1/2 = 100%	□ b) (1/2)(1/2) = 25%
	c) cannot be answered	☐ d) 33%

15.



Drawing one card from the deck, P(card is red and even-numbered). Which results are correct?

a) 10/52

c) (26/52) + (16/52)

□ b) 19.2%

☐ d) 80.7%