Name

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Express the indicated degree of likelihood as a probability value.

- 1) "It will definitely turn dark tonight."
 - A) 0.30

C) 0.5

D) 0.67

1)

Answer the question.

- 2) Which of the following cannot be a probability?

B) $\frac{5}{2}$

C) $\frac{1}{2}$

D) $\frac{3}{5}$

Find the indicated probability.

- 3) A die with 12 sides is rolled. What is the probability of rolling a number less than 11?
 - A) $\frac{1}{12}$

B) $\frac{11}{12}$

C) 10

Answer the question, considering an event to be "unusual" if its probability is less than or equal to 0.05.

- 4) Assume that a study of 300 randomly selected school bus routes showed that 280 arrived on time. Is it "unusual" for a school bus to arrive late?
 - A) Yes

B) No

Find the indicated probability.

- 5) In a poll, respondents were asked whether they had ever been in a car accident. 157 respondents indicated that they had been in a car accident and 117 respondents said that they had not been in a car accident. If one of these respondents is randomly selected, what is the probability of getting someone who has been in a car accident? Round to the nearest thousandth, if necessary.
 - A) 1.342
- B) 0.006
- C) 0.573
- D) 0.427

Find the indicated complement.

- 6) Find $P(\overline{A})$, given that P(A) = 0.776.
 - A) 0

- B) 1.776
- C) 1.289
- D) 0.224

- 7) The probability that Luis will pass his statistics test is 0.26. Find the probability that he will fail his statistics test.
 - A) 0.13
- B) 0.74
- C) 0.35
- D) 3.85

8)

Find the indicated probability.

8) A spinner has equal regions numbered 1 through 15. What is the probability that the spinner will stop on an even number or a multiple of 3?



A) 12

B) $\frac{7}{9}$

C) $\frac{1}{3}$

D) $\frac{2}{3}$

9) The table below describes the smoking habits of a group of asthma sufferers. Occasional Regular Heavy Nonsmoker smoker smoker smoker Total 516 Men 351 47 70 48 395 Women 40 87 43 565 Total 746 87 91 157 1081 If one of the 1081 people is randomly selected, find the probability of getting a regular or heavy smoker. A) 0.145 B) 0.476 C) 0.109 D) 0.229

bracket (26 of whon probability of gettir	in the 23-30 age bracket (40 c n smoke). If one person is rar ng someone who is age 23-30	ndomly selected from this or smokes.	sample, find the	
A) 0.501	B) 0.294	C) 0.098	D) 0.6	
11) A bag contains 6 red marbles, 2 blue marbles, and 1 green marble. Find P(not blue).				11)
A) 7	B) $\frac{7}{9}$	C) $\frac{2}{9}$	D) $\frac{9}{7}$	
2) A manufacturing process has a 70% yield, meaning that 70% of the products are acceptable and				12)
	f three of the products are rar	ndomly selected, find the p	probability that all of	
them are acceptable A) 2.1	e. B) 0.343	C) 0.027	D) 0.429	
	are rolled there are 36 differences, what is the probability of			13)
decimal places.	B) 0.00005168	C) 0.00001694	D) 0.00032	
A) 0.04	ŕ			
A) 0.04 4) You are dealt two c	ards successively (without re	•	. 3 0	14)
A) 0.04 4) You are dealt two c	ards successively (without repablility that both cards are black) $B) \frac{1}{2,652}$	•	. 3 0	14)

C) 0.7071

D) 0.7023

B) 0.0013

A) 0.0008