1) If $P(A) = 0.25$, $P(B) = 0.51$, and $P(A \text{ or } B) = 0.76$, are A and B mutually exclusive?   1) _____

     A) Yes   B) No

2) If $P(A) = 0.37$, $P(B) = 0.7$, and $P(A \text{ or } B) = 0.74$, are A and B mutually exclusive?   2) _____

     A) No   B) Yes

3) In a fish tank, there are 28 goldfish, 3 angelfish, and 17 guppies. If a fish is selected at   3) _____
random, find the probability that it is an angelfish or a guppy.

     A) $\dfrac{7}{12}$ B) $\dfrac{31}{48}$ C) $\dfrac{15}{16}$ D) $\dfrac{5}{12}$

4) If a single card is drawn from an ordinary deck of cards, what is the probability of   4) _____
drawing a jack, queen, king, or ace?

     A) $\dfrac{17}{52}$ B) $\dfrac{9}{26}$ C) $\dfrac{4}{13}$ D) $\dfrac{5}{13}$

5) A single card is drawn from a deck. Find the probability of selecting a heart or a 8.   5) _____

     A) $\dfrac{17}{52}$ B) $\dfrac{2}{13}$ C) $\dfrac{1}{4}$ D) $\dfrac{4}{13}$

6) Two dice are rolled. Find the probability of getting doubles or a sum of 2.   6) _____

     A) $\dfrac{1}{4}$ B) $\dfrac{2}{9}$ C) $\dfrac{7}{36}$ D) $\dfrac{1}{6}$

7) In a recent semester at a local university, 520 students enrolled in both General   7) _____
Chemistry and Calculus I. Of these students, 70 received an A in general chemistry, 81
received an A in calculus, and 34 received an A in both general chemistry and calculus.

Find the probability that a randomly chosen student received an A in general chemistry
or calculus or both.

     A) 0.356   B) 0.29   C) 0.775   D) 0.225

8) The frequency distribution shows the number of medical tests conducted on 30 randomly selected emergency room patients.

Number of tests performed	Number of patients
0	11
1	9
2	6
3	3
4 or more	1

If a patient is selected at random, find these probabilities:
a. The patient had exactly 3 tests done.
b. The patient had at most 2 tests done.
c. The patient has 1 or 2 tests done.
d. The patient had fewer than 3 tests done.
e. The patient had at least 3 tests done.

9) An apartment building has the following distribution of apartments:

9) _____

	1 bedroom	2 bedroom	3 bedroom
1st floor	3	0	1
2nd floor	1	3	2
3rd floor	1	4	1

If an apartment is selected at random, what is the probability that it is on the 2nd floor or has 2 bedrooms?

A) $\dfrac{5}{8}$ B) $\dfrac{13}{16}$ C) $\dfrac{7}{10}$ D) $\dfrac{3}{5}$

Answer Key
Testname: PRACTICE9

1) A
2) A
3) D
4) C
5) D
6) D
7) D
8) $a.\ \dfrac{1}{10};\ \ b.\ \dfrac{13}{15};\ \ c.\ \dfrac{1}{2};\ \ d.\ \dfrac{13}{15};\ \ e.\ \dfrac{2}{15}$

9) A