

Name: _____ Date: _____ Row: _____ Period: _____

NOTES 12.4: PROBABILITY OF COMPOUND EVENTS

event A or event B	event A and event B	mutually exclusive
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COMPOUND EVENT

PROBABILITY OF COMPOUND EVENTS

EXAMPLE 1

One six-sided die is rolled. What is the probability of rolling a _____?

EXAMPLE 2

One six-sided die is rolled. What is the probability of rolling a _____?

EXAMPLE 3

In a poll of high school juniors, ___ out of 15 took a French class and ___ out of 15 took a math class. ___ out of 15 students took French or math. What is the probability that a student took both French and math?

YOUR TURN

In a survey of ___ pet owners, ___ owned dogs, ___ owned cats, ___ owned birds, and ___ owned reptiles.

a) None of the respondents owned both a cat and a bird. What is the probability that they owned a cat or a bird?

b) Of the respondents, 52 owned both a cat and a dog. What is the probability that a respondent owned a cat or a dog?

c) Of the respondents, 119 owned a dog or a reptile. What is the probability that they owned a dog and a reptile?

COMPLEMENT**PROBABILITY OF THE COMPLEMENT OF AN EVENT****EXAMPLE 4**

A card is randomly selected from a standard deck of 52 cards. Find the probability of the given event.

a) The card is _____

b) The card is _____

EXAMPLE 5

When two six-sided dice are tossed, there are 36 possible outcomes. Find the probability of the given event.

a) The sum is _____

b) The sum is _____