

Name:

Date:

Hour:

Algebra 1  
WS 11.4B Compound Events

1. Five years after 650 high school seniors graduated, 400 had a college degree and 310 were married. Half the students with a college degree were married. Find each probability.

a.  $P(\text{college degree or married})$

b.  $P(\text{college degree or not married})$

c.  $P(\text{no college degree or married})$


2. A bag contains 25 marbles: 10 black, 13 red, and 2 blue. A marble is drawn from the bag at random.

a. Explain why the events “getting a black” and “getting a red” are mutually exclusive

b. What is the probability of getting a red or a blue marble?

3. Numbers 1 – 10 are written on cards and placed in a bag. Find each probability.

a.  $P(\text{a number greater than 5 or an odd number})$

b.  $P(\text{an 8 or a number less than 5})$

c.  $P(\text{an even number or a multiple of 6})$

4. Of the 65 students going on a soccer trip, 43 are players and 12 are left – handed. Only 5 of the left – handed students are soccer players. What is the probability that one of the students on the trip is a soccer player or is left – handed?

