

Name: _____

Date: _____

Titanic Worksheet

There were 2223 passengers onboard the *Titanic* when it sank. The table below gives the mortality information for those on board.

<i>Titanic</i> Mortality					
	Men	Women	Boys	Girls	Total
Survived	332	318	29	27	706
Died	1360	104	35	18	1517
Total	1692	422	64	45	2223

1. If someone aboard the *Titanic* was randomly selected, what is the probability that he or she survived the sinking?
2. Assume that 1 person is randomly selected from all those aboard the *Titanic*.
 - a. Find $P(\text{selecting a man or a boy})$.
 - b. Find $P(\text{selecting a man or someone who survived})$.
 - c. Find the probability of selecting a woman or a boy or girl.
 - d. Find the probability of selecting a woman or someone who died in the sinking of the ship.
3. Assume one person is randomly selected from all those aboard the *Titanic*.
 - a. What is the probability that this person survived, given that the selected person is a man?
 - b. What is the probability of getting a man, given that the selected person survived?
4. Find the Probability of getting a woman or child if a *Titanic* survivor is randomly selected.

5. If we randomly select someone who was aboard the *Titanic*, what is the probability of getting a man, given that the selected person died?
6. If we randomly select someone who died, what is the probability of getting a man?
7. What is the probability of getting a boy or girl, given that the randomly selected person is someone who survived?
8. What is the probability of getting a man or woman, given that the randomly selected person is someone who died?