Probability

As a class or in small groups, roll 2 dice 12 times and record your results below.

a) List the 2-dice combinations you rolled below.

1. _____ 2. _____ 3. _____

4. _____ 5. _____ 6. _____

7. _____ 8. _____ 9. _____

10. _____ 11. _____ 12. _____

b) For each 2-dice combination listed above, list the other different 2-dice combinations you could role to get that same total.

1. _____ 2. _____ 3. _____

4. _____ 5. _____ 6. _____

7. _____ 8. _____ 9. _____

10. _____ 11. _____ 12. _____

c) For each 2-dice combination listed in section a), list the probability of rolling the total number using any 2 dice.

1. _____ 2. _____ 3. _____

4. _____ 5. _____ 6. _____

7. _____ 8. _____ 9. _____

10. _____ 11. _____ 12. _____

d) List the probability of rolling the following totals with 2 dice.

1. _____ 2. _____ 3. _____

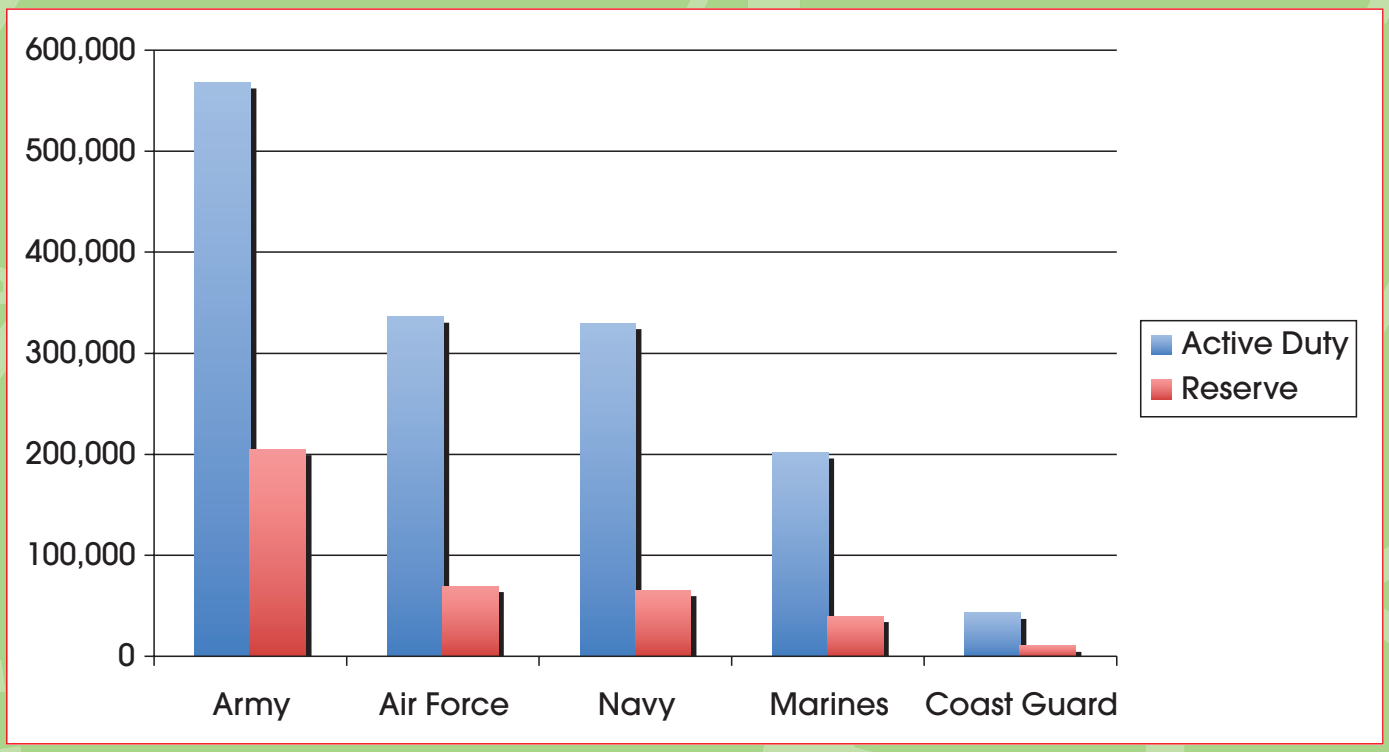
4. _____ 5. _____ 6. _____

7. _____ 8. _____ 9. _____

10. _____ 11. _____ 12. _____

Ordering

The graph below shows the size of the U.S. military forces. Working with a partner or in a small group, use this graph to complete the activity.



a) List the armed forces active duty sizes from least to greatest.

_____ _____ _____ _____ _____

b) List the armed forces reserved sizes from least to greatest.

_____ _____ _____ _____ _____

c) List three comparisons that can be drawn between the armed forces.

_____ _____ _____

d) List four conclusions that can be drawn from this data.

_____ _____ _____ _____

Proportions and Fractions

The tally chart below shows how people responded to a question about ice cream flavors. Work with a partner or small group to answer the questions below.

Flavor	Student's responding
Vanilla	/////
Chocolate	///// /////
Butternut	///
Mint	///// /
Rocky road	//
Watermelon	///

a) What question might students have been asked in order to get the results shown on this chart?

_____

b) List the flavors in order from most votes to least votes.

_____ _____ _____ _____ _____ _____

c) Identify how many students were asked to participate in this chart.

_____

d) Make three proportions for this chart (example, what is the ratio of students who chose chocolate to students who chose watermelon).

_____

_____

_____

e) Make three fractions based on this chart (example, what fraction of the total students selected rocky road).

_____

_____

_____

f) As a group, decide what type of graph best shows this data. Then, put this data into the graph.