

Name: \_\_\_\_\_

April 6, 2010

***Homework for CUIN 7333: Due April 13, 2010***

1. What will happen to the fraction  $\frac{7}{8}$  if the top number gets smaller and the bottom number gets bigger?
  - a. Fraction gets bigger
  - b. Fraction gets smaller
  - c. Fraction stays the same
  - d. There is not enough information to tell

Please explain your choice:

2. What will happen to the fraction  $\frac{3}{4}$  if the top number gets bigger and the bottom number gets bigger?
  - a. Fraction gets bigger
  - b. Fraction gets smaller
  - c. Fraction stays the same
  - d. There is not enough information to tell

Please explain your choice:

3. Place a number in the brackets that will make the two fractions equal:

$$\frac{8}{24} = \frac{[ \quad ]}{6}$$

Please explain why you wrote this number:

4. Circle the smaller fraction. If they are equal, circle both fractions:

$$\frac{3}{15} \quad \frac{9}{45}$$

Please explain your thinking:

5. If Nick ran few laps in more time than he did yesterday, his running speed would be
- Faster
  - Slower
  - Exactly the same
  - There is not enough information to tell

Please explain your thinking:

6. Nancy's movie line has more people in it than Kathy's line. Nancy's line is longer than Kathy's line. In which line are the people closer together?
- Nancy's line
  - Kathy's line
  - The people are spaced exactly the same
  - There is not enough information to tell

Please explain your thinking:

7. Alex and Peter drew the same size maps of their classroom. Alex drew two desks 8 inches apart on his map that are really 24 feet apart in the classroom. How long on his map did Peter draw the 6-foot-long chalkboard?

Please explain the thinking that led to your answer:

8. Anne and Linda mixed some green paint for a project. Anne mixed 3 drops of green tint with 15 ounces of white paint. Linda mixed 9 drops of green tint with 45 ounces of white paint. Who mixed the darkest shade of green paint?
- a. Anne
  - b. Linda
  - c. Their paint mixtures were exactly the same shade
  - d. There is not enough information to tell.

Please explain your thinking: