Kerry Ojakian's MTH 23.5 Class
Class Assignment #4

Determine if the given fractions are equivalent:

1. $\frac{5}{15}$ and $\frac{1}{3}$
2. $\frac{2}{8}$ and $\frac{2}{4}$
3. $\frac{3}{4}$ and $\frac{12}{16}$
4. $\frac{4}{6}$ and $\frac{10}{15}$

5. Reduce $\frac{25}{10} =$
6. Reduce $\frac{-12}{4} =$

7. Find two fractions that are equivalent to $\frac{2}{7}$:

8. Find two fractions that are equivalent to $\frac{15}{10}$:

9. As a fraction $0.75 =$
10. As a fraction $1.5 =$
11. As a fraction $25\% =$
12. As a fraction $30\% =$
13. As a fraction $100\% =$
14. As a fraction $200\% =$

15. Consider the following data:

$$3, 4, 1, 3, 6, 9, 4$$

Find the second quartile (i.e. median).

Find the first quartile.

Find the third quartile.

Find the range, and the interquartile range.

Draw a Box plot.

16. Consider the following data:

$$32, 41, 12, 32, 60, 9, 42, 42, 39, 40$$

Find the second quartile (i.e. median).

Find the first quartile.

Find the third quartile.

Find the range, and the interquartile range.

Draw a Box plot.

17. Consider the following data (same as last problem):

$$32, 41, 12, 32, 60, 9, 42, 42, 39, 40$$

Find the 50th percentile.

Find the 80th percentile.

Find the 20th percentile.

18. Given some data, are there more data items in the 65th percentile or 77th percentile? Justify your answer.

19. Suppose your test score is at about the 70th percentile. About what percent of students scored below you? And what percent scored above you? Justify your answer.