Math 01, Homework 4 on Sections 3.1 - 3.5
Hand in by Wed, Mar 9 at the start of class.

Write all your working out and answers on a separate sheet. It is very important that you show clearly any work you had to do to get the answer. These first ten questions are 2 points each and **the answers are on page 2**.

(1) Simplify: **(a)** $\frac{0}{5}$, **(b)** $\frac{6}{6}$, **(c)** $\frac{8}{1}$

(2) Convert to a mixed number: $\frac{7}{3}$

(3) Convert to a mixed number: $\frac{101}{9}$

(4) Five people share nine small pizzas fairly. Used mixed numbers to say how much pizza each gets.

(5) Convert to an improper fraction: $5\frac{3}{7}$

(6) Calculate: **(a)** $\frac{2}{3} \cdot \frac{5}{3}$ **(b)** $\frac{1}{5} \cdot \frac{3}{2} \cdot 7$

(7) Compute one half of one quarter.

(8) Write four different fractions equivalent to $\frac{1}{4}$

(9) Reduce to lowest terms: $\frac{6}{36}$

(10) Reduce to lowest terms: $\frac{26}{39}$

These next eight questions are 2 points each. Show clearly all your working out and reasoning.

(11) Simplify: **(a)** $\frac{9}{9}$, **(b)** $\frac{0}{2}$, **(c)** $\frac{3}{1}$

(12) Convert to a mixed number: $\frac{101}{7}$

(13) Four people share 13 chocolate bars fairly. Used mixed numbers to say how many bars each gets.

(14) Convert to an improper fraction: $4\frac{3}{10}$

(15) Calculate: **(a)** $\frac{2}{5} \cdot \frac{3}{7}$ **(b)** $\frac{4}{7} \cdot \frac{2}{3} \cdot 5$

(16) Compute one quarter of one third.

(17) Write four different fractions equivalent to $\frac{2}{5}$

(18) Reduce to lowest terms: $\frac{20}{28}$

Answers to questions (1)-(10):

(1) **(a)** 0, **(b)** 1, **(c)** 8

(2) $2\frac{1}{3}$

(3) $11\frac{2}{9}$

(4) $\frac{9}{5} = 1\frac{4}{5}$, so each person gets $1\frac{4}{5}$ pizzas.

(5) $\frac{38}{7}$

(6) **(a)** $\frac{10}{9}$ **(b)** $\frac{21}{10}$

(7) $\frac{1}{2} \cdot \frac{1}{4} = \frac{1}{8}$, so the answer is one eighth.

(8) Examples of four different fractions equivalent to $\frac{1}{4}$ are: $\frac{2}{8}$, $\frac{3}{12}$, $\frac{10}{40}$, $\frac{200}{800}$

(9) $\frac{1}{6}$

(10) $\frac{2}{3}$