General Information:

- Quiz 1 will take place on Monday, September 21, in class. It will take about 30 minutes.

- The quiz will cover solving equations, word problems, and fractions.

- Bring a calculator to the quiz. You will be at a disadvantage if you do not have one, and I cannot allow you to share a calculator with someone else during the quiz.

- The quiz will have 10 questions. To pass the quiz, you need to correctly answer 8 of the questions. I recommend checking your answers after every problem.

Study Tips

- Work the two Practice Quizzes on the attached sheet, and check your answers with the solutions (which will be posted on course webpage).

- Review Worksheets 1 through 3 and Homework 2. In particular, review the problems listed on the next page.

- Read (or skim) Chapters 1 and 3 of the textbook, and Chapter 2 pages 42 through 52. Work the problems from the textbook listed on the next page, and check your answers in the back of the book.

- Go to the Math Study Room, come to my office hours, or meet with a tutor if you have any questions.

Office Hours

My office hours are:

- Tuesday 6 - 7 pm in RKC 101
- Wednesday 2 - 4 pm in BARC
- Thursday 7 - 9 pm in BARC

Math Study Room

The Math Study Room is open Sunday through Wednesday, 7 - 10 pm, in RKC 111.
Topics

• **Solving Equations:** Be able to solve equations, similar to the ones we have been working in class.
  - Chapter 3, page 76: Questions 1 and 3
  - Worksheet 1: Problem 3
  - Worksheet 2: Problem 1
  - Homework 2: Problem 1
  - Worksheet 3: Problems 1 and 2

• **Word Problems:** Be able to solve word problems similar to the ones listed below.
  - Worksheet 1: Problems 5, 6, and 7
  - Worksheet 2: Problem 2
  - Homework 2: Problems 2 and 3

• **Fractions:** Be able to add, multiply, and divide fractions, including fractions with variables, and complicated fractions involving fractions in the numerator or denominator.
  - Chapter 2, page 60: Questions 1, 4, 5, and 6
  - Worksheet 2: Problems, 4, 5, and 6
  - Homework 2: Problems 6, 7, 8, and 9
  - Worksheet 3: Problems 1 and 2
Practice Quiz A, Group 2

In problems 1 through 5, solve the given equation:

3. \( \frac{2x}{5} = -8 \)

4. \( \frac{-x + 3}{4} - 2 = 1 \)

5. \( x = 3x + 4 \)

6. \( x - 0.05x = 9.5 \)

7. \( 3(2x - 1) - (3x - 4) = 4 \)

In problems 6 and 7, find the answer to the word problem.

6. Carol buys a bunch of books. She donates half of the books to the local library. Then, she gives five of the books away as birthday presents. If she now has 14 books, how many did she originally purchase?

7. The US Olympic basketball team won a basketball game by 15 points over Germany. The two teams together scored a total of 111 points. How many points did the US team score?

In problems 8 and 9, evaluate the given expression.

8. \( \frac{3}{7} \)

9. \( \frac{\frac{1}{2} + \frac{1}{4}}{3} \)

In problem 10, simplify by adding the fractions.

10. \( \frac{3}{x} + \frac{5}{y} \)
Practice Quiz B, Group 1

In problems 1 through 5, solve the given equation:

1. $3x + 2 = 1$

2. $\frac{x}{4} + 3 = 7$

3. $5 = 7x - 3x + 2$

4. $0.3(1 + x) - 0.5 = 4$

5. $-4(2x - 3) = 3(x + 1) - 2x$

In problems 6 and 7, find the answer to the word problem.

6. The Cooking Club made some pies to sell at a bake sale to raise money for their club. The dining hall contributed four pies to the sale. Each pie was then cut into five pieces and sold. There were a total of 60 pieces to sell. How many pies did the Cooking Club make?

7. George has 37 marbles colored green, blue, and red. He has twice as many red marbles as green marbles, and he has three fewer blue marbles than green marbles. Determine how many red marbles he has.

In problems 8 and 9, evaluate the given expression.

8. $\frac{2}{4/5}$

9. $\frac{7}{\frac{1}{3} + \frac{1}{4}}$

In problem 10, simplify by adding the fractions.

10. $\frac{1}{x + 1} + \frac{3}{x - 2}$