

**Math 210: Assignment 1 (25 points)**

**Due by the time you take Exam I – Late Assignments will not be accepted.**

- Do all work on a separate sheet of paper.
- You must show work to receive credit.
- Turn in work in order (#2 should come after #1, etc.)
- You may work in groups of up to 3 people. Points will be taken off, if more than 3 names are on one assignment.

1. (3 points) Multiply the following:

a.  $(-31) \cdot (58) \cdot (12)$

b.  $(-456) \cdot (-123)$

2. (3 points) Divide the following:

a.  $(408) \div (-17)$

b.  $(-962) \div (-26)$

3. (3 points) Solve the equations:

a.  $5 + q = 43$

b.  $11 = z - 17$

c.  $-238 = 17y$

4. (4 points) Simplify as much as possible:

a.  $(6-12)^2 \div 9 + 5 \cdot 11 - 14 \div 2$

b.  $4^2 - 11 - 42 \cdot 6 \div 9 + 12^2 \div (11-13)^3 - (-13)$

5. (3 points) The volume of a box is the length times the width times the height. The height of a box is 4 inches and the length is three times longer than the height. If the volume of the box is 240 square inches, find the width of the box.

6. (4 points) Arrange the numbers from smallest to largest:

$$-4\frac{2}{3}, \frac{15}{7}, \frac{2}{9}, 5, \frac{11}{45}, |-4|, \frac{19}{12}, 6\frac{2}{3}, -\frac{23}{5}, |-2|$$

7. (4 points) Find the LCM and the GCF of the following:

a. 18, 15, and 21

b. 4, 6, and 9

8. (3 points) In a poll, 7 out of 25 people said they liked chocolate ice cream. In a different poll, 13 out of 55 people said they liked strawberry ice cream. If these polls are accurate, which type of ice cream do people like more, chocolate or strawberry?