

**BRONX COMMUNITY COLLEGE**  
**of The City University of New York**

**DEPARTMENT OF MATHEMATICS and COMPUTER SCIENCE**

**MTH 05 First Day Test**  
**(No Grade)**

**Based on review for MTH 01**

1. Compute

(a)  $2783 \div 11$

(b)  $23 * 10^9$

(c)  $23 + 123 + 1098 + 3$

(d)  $132 \times 23$

(e)  $1.2 + .45 + 3.12$

(f)  $0.0123 \times 10^3$

(g)  $3.123 - 1.09$

(h)  $1.2 \div 0.03$

2. Find prime factorization of 210.

3. Compute the quotient and remainder of  $5684 \div 21$

4. Reduce to lowest terms  $\frac{12}{56}$

5. Change to improper fraction  $2\frac{3}{5}$

6. Change to a mixed number  $\frac{56}{3}$

7. Compute and simplify if possible

(a)  $2\left(\frac{3}{4}\right)$

(b)  $\frac{6}{23} \div 3$

(c)  $\frac{2}{3} + \frac{4}{5}$

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

(e)  $\frac{1}{2} + \frac{2}{3} + \frac{3}{4}$

(f)  $\frac{2}{3} \div \frac{5}{6}$

(g)  $2\frac{2}{3} \times \frac{6}{5}$

(h)  $2\frac{3}{4} \div 3\frac{2}{3}$

8. Evaluate  $x \times \frac{x-y}{2x+y}$ , if  $x = 3, y = 1$

9. Solve for  $x$ : (a)  $x - 3 = 5$

(b)  $2x + 4 = 10$

(c)  $2 - x = 4$

(b)  $\frac{1}{x} = \frac{2}{7}$

10. Find the missing sides, then find area and perimeter of the figure.

