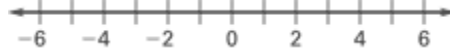


Chapter 2 Review Worksheet: Practice for Test 2 Part B**Alg 1***Show your work for all problems!***1. Graph the numbers on a number line.**

a. -2.75 and 6.3



b. $\frac{6}{10}$ and $-1\frac{8}{9}$

**2. Write the numbers in increasing order.**

a. $3.6, -1.5, 0.1, -1.1, 1.99$

c. $\sqrt{99}, 8.9, -\sqrt{10}, -3.98, 10.02$

b. $3\frac{4}{9}, 3.5, -2.15, -2\frac{1}{5}, -2\frac{2}{7}$

d. $\sqrt{18}, -\sqrt{24}, -5\frac{6}{7}, 3\frac{9}{11}, -5.9$

3. Evaluate.

a. $-\left|-\frac{2}{3}\right| + \frac{4}{5}$

h. $-58 \div \left(-\frac{2}{3}\right)$

b. $-1.7 + (-3.5) + 11.5$

i. $\left(-\frac{3}{4}\right)\left(-\frac{10}{9}\right)\left(\frac{4}{3}\right)\left(-\frac{9}{10}\right)$

c. $-7.3 - |-4.1| + 4.5$

j. $-36 \div \left(-\frac{9}{14}\right)$

d. $-|-14.5| + (-2.6) - 7.3$

k. $\sqrt{0.0625}$

e. $110.3 + 67.9 + (-49.2)$

l. $\pm\sqrt{1.44}$

f. $\left|\frac{2}{3} - \left(-\frac{1}{2}\right) + \frac{1}{3}\right|$

m. $-\sqrt{b} + 8$ when $b = 25$

g. $\left(-\frac{4}{3}\right)\left(-\frac{6}{7}\right)\left(\frac{2}{3}\right)\left(\frac{14}{15}\right)$

n. $\frac{\sqrt{b}}{14} + \frac{1}{2}$ when $b = 49$

4. A sporting goods company had a profit of \$7971.35 in April, a loss of \$3978.65 in May, and a profit of \$2867.45 in June. Did the company make a profit during the 3-month period? If so, what was the profit?

5. Evaluate the expression for the given values of the variables.

- a. $x + 4.2 + (-6.4) + (-1.1)$ when $x = 0.5$
- b. $3x^2 - x + 5$ when $x = -3$
- c. $|3a - 4| - 5b$ when $a = 2$ and $b = 3$
- d. $|6x - 3y|$ when $x = \frac{2}{3}$ and $y = \frac{5}{6}$
- e. $\frac{x - 3y}{4}$ when $x = 2$ and $y = \frac{1}{3}$
- f. $\frac{a + 4b}{2}$ when $a = -1$ and $b = 3$

6. Simplify.

- a. $(-6c)(2 - 3c)$
- b. $(-5d - 10)(-6d)$
- c. $x - (4 + 3x)(x)$
- d. $(-8y)(3y - 4) + 6y - 5$
- e. $\frac{18m}{-4m} \div \left(-\frac{1}{4m}\right)$
- f. $5x + \frac{2x}{15}$
- g. $\frac{-16x + 8}{-4}$
- h. $\frac{-32 - 4x}{-8}$