

Pre-Algebra, Exam 1

Instructions: Please write your name on every page. All 8 problems are worth an equal number of points. As always, show your work. Partial credit will be given for incorrect answers with relevant work shown. Credit will not be given for correct answers with no work shown. Good luck!

Name:	
Signature:	

Do not mark. For grading purposes only.

Question	Score	Possible
1		10
2		10
3		10
4		10
5		10
6		10
7		10
8		10
Total		80

1. Order from smallest to largest:

(a)

$$-3, 0, -25, 3$$

(1)

(b)

$$\frac{1}{10}, \frac{1}{100}, 1\frac{1}{5}$$

(2)

2. Solve:

(a)

$$n - 5 = -2 \quad (3)$$

(b)

$$x - \frac{1}{4} = 3\frac{1}{8} \quad (4)$$

3. Combine:

(a)

$$\frac{1}{3} + \frac{1}{3} \quad (5)$$

(b)

$$\frac{1}{3} + \frac{1}{5} \quad (6)$$

(c)

$$1\frac{1}{8} - 2\frac{3}{32} \quad (7)$$

4. Seven people are sharing a pizza. Two greedy people eat $\frac{1}{4}$ of the pizza each, while a third person eats $\frac{1}{6}$. If we divide the remaining pizza evenly among the remaining people, how much do they each get?

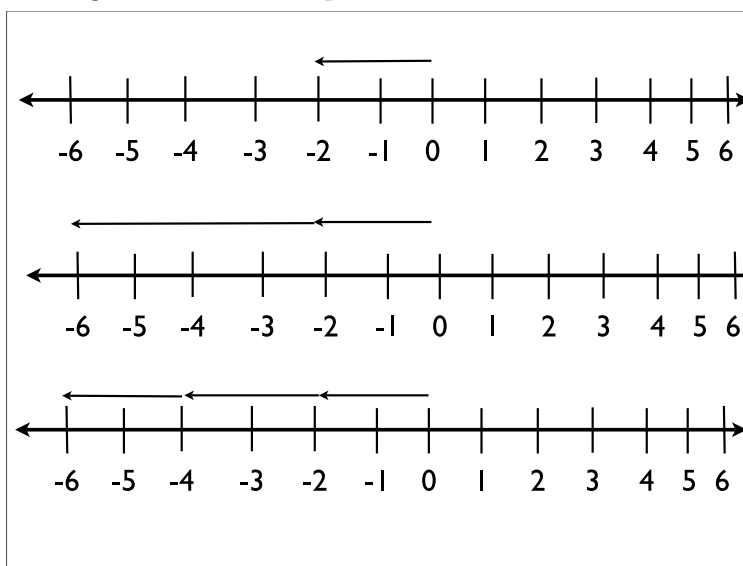
5. (a) Find the Greatest Common Factors of the following pairs of numbers:

(a) (8,32) (b) (21,49) (c) (39,57)

(b) Find the Least Common Multiple of each pair of numbers:

(a) (9,15) (b) (12,14) (c) (18,7)

6. (a) What sums do the following number lines represent?



(b) Solve:

(a) $n = 5 + 2 \times 4$

(b) $x = 4 \times -2 + 6$

(c) $y = -9 \div 3 + 2$

7. Solve:

$$\frac{1}{3}x + \frac{1}{2} = \frac{2}{5} \quad (8)$$

8. The price of grapefruits is 25% less this week than it was last week. If grapefruits cost \$3 per pound this week, what was their cost last week?