Algebra Foundations Quiz #39 Week 15 Monday   Name_____
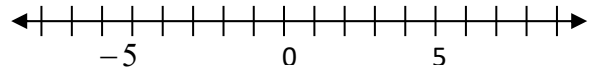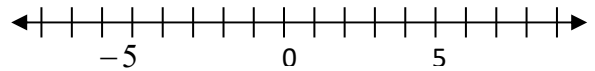
SHOW ALL WORK to receive full credit.

Solve and graph the following inequalities on the number line. (4 points each)
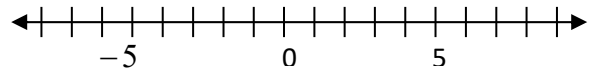
1. $7x - 8 \leq 20$

2. $-12 > 3(2x - 6)$

3. $-18x + 5 \leq -8x - 5$

Use PEMDAS to simplify the following expressions. (4 points each)
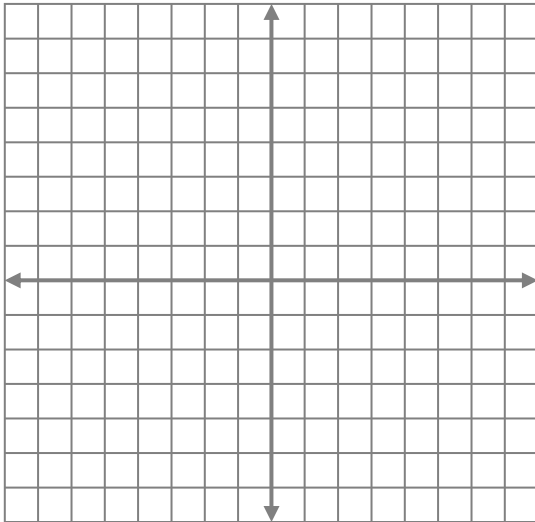
4. $(3 + (11 - 15) - 2) \div 3 - 7 =$ _____

5. $13 + (4^2 - 1) \div 3 + 2 =$ _____

Evaluate the formula. (4 points)

6. $a^2 b - 2b^2$ when $a = 3$ and $b = -2$

24 points

Graph both lines and label the point of intersection. (8 points)

Add or Subtract the following. You must line them up vertically and show your work. (3 points each)

7. $y = -3x + 3$ *and* $y = x - 1$

(8.) $13 + 5.23 + 9.01 =$ _____

(9.) $\$422 - \$39.23 =$ _____

(10.) $11.156 - 4.02 =$ _____

Point of intersection: _____

Multiply or Divide the following decimals. (2 points each)

(11.) 5.268×0.013

(12.) $5\overline{)3\,9\,1\,1\,.\,5}$

(13.) $0.08\overline{)4\,.\,9\,6}$

Round to the indicated place value. (1 point each)

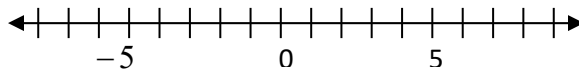14.   16,523.5471   (hundredths) _____

15.   9,456.348   (tenths) _____

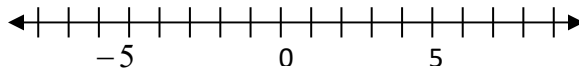16.   955.5   (ones) _____

26 points

SHOW ALL WORK to receive full credit.

Solve and graph the following inequalities on the number line. (4 points each)
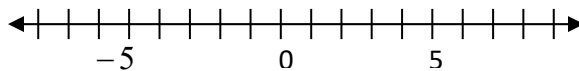
1. $5 - 3x \leq -10$

2. $-12 > 4(4x + 5)$

3. $7x + 3 \leq 10x - 9$

Use PEMDAS to simplify the following expressions. (4 points each)
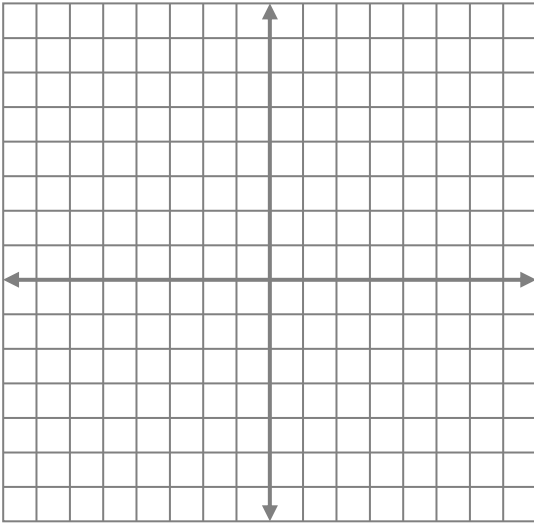
4. $36 \div (4 + 5) \cdot 2 = $ _____

5. $5 + 12 \div 3 \cdot 2 - 8 = $ _____

Evaluate the formula. (4 points)

6. $a^2 b - 2b^2$ when $a = 4$ and $b = -1$

24 points

**Graph both lines and label the point
of intersection. (8 points)**

7. $y = \frac{1}{2}x$ *and* $y = x + 4$

Point of intersection: _____

Multiply or Divide the following decimals. (2 points each)

11. 1.6072×0.56

12. $3\overline{)98.25}$

13. $0.06\overline{)0.0738}$

Round to the indicated place value. (1 point each)

14. 16,523.5471 (tenths) _____

15. 9,456.348   (hundredths) _____

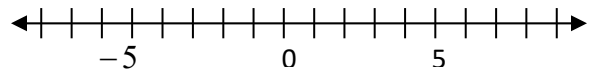16. 955.5   (ones) _____

**Add or Subtract the following.
You must line them up vertically
and show your work. (3 points each)**

8. $27 + 6.18 + 168.02 =$ _____

9. $\$560 - \$27.28 =$ _____

10. $19.246 - 8.02 =$ _____

26 points

Algebra Foundations Quiz #41 Week 15 Friday   **Name**_____

Solve and graph the following inequalities on the number line. (4 points each)

1. $-4(2x + 1) \leq 28$
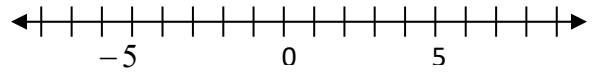
2. $-5x + 2 > 4x - 7$

Use PEMDAS to simplify the following expressions. (3 points each)

3. $6 - 3(2 + 3)^2 =$ _____

4. $-4^2 \div 2(3 + 7) =$ _____

Evaluate the formula. (4 points)

5. $V = \pi r^2 h$ when $\pi = 3.14, r = 6\ cm\ and\ h = 14\ cm$

Round to the indicated place value. (2 points each)

6. 31,385.672 (tenths) _____

7. 6,588.3419 (hundredths) _____

8. 78.53981   (ones) _____

24 points

Add or Subtract the following. You must line them up vertically and show your work. (3 points each)

9. $17.6 + 54.831 + 23 =$ _____

10. $\$20 - \$8.73 =$ _____

Multiply or Divide the following decimals. (3 points each)

11. $6.321 \times 0.045 =$ _____

12. $0.6\overline{\smash{\big)}\,451.95}$

Change the following fractions to decimals. Round answers to the nearest tenth. (2 points each)

13. $\dfrac{7}{8} =$ _____

14. $\dfrac{13}{21} =$ _____

15. $6\dfrac{2}{3} =$ _____

Solve the equations. Write your answer as a decimal rounded to the nearest tenth. (4 points each)

16. $8 - 2x + 10 + 6x = -5x + 14 + 3x$

17. $\dfrac{-2}{8x} = \dfrac{3}{4x-6}$

26 points