

## Bellwork: Algebra 1 Honors

1. Write down your homework for the night.
2. Take out your homework from last night and be ready for me to check.
3. Answer the following on your bellwork page for TUESDAY:

$$11(8r + 3) - 2(-9 + 6r)$$
$$\underline{88r} + \underline{33} + \underline{18} - \underline{12r}$$
$$76r + 51$$

$$5. -x - 2 + 15x$$

$$14x - 2$$

$$10. 4xy - 6xy + 5y - 9x$$

$$-2xy + 5y - 9x$$

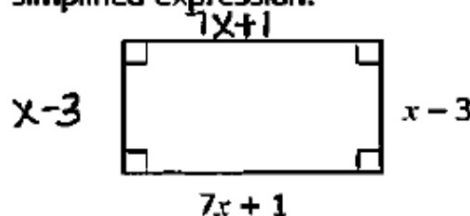
$$14. 6n^2 - 2n - 3 + 5n^2 - 9n - 6$$

$$11n^2 - 11n - 9$$

$$17. 6a^2b^2 + 3ab^2 - a^2b^2 - 4ab^2$$

$$5a^2b^2 - ab^2$$

19. Write the perimeter of the rectangle as a simplified expression.



$$16x - 4$$

$$6. -(x + 4) = \underline{-x - 4}$$

$$8. 7a(3b - 2c + 4) = \underline{21ab - 14ac + 28a}$$

$$14. 8(x + 5) - 4(x + 4)$$

$$8x + 40 - 4x - 16$$

$$= \boxed{4x + 24}$$

$$17. -4(8 - c) - (3c + 7)$$

$$-32 + 4c - 3c - 7$$

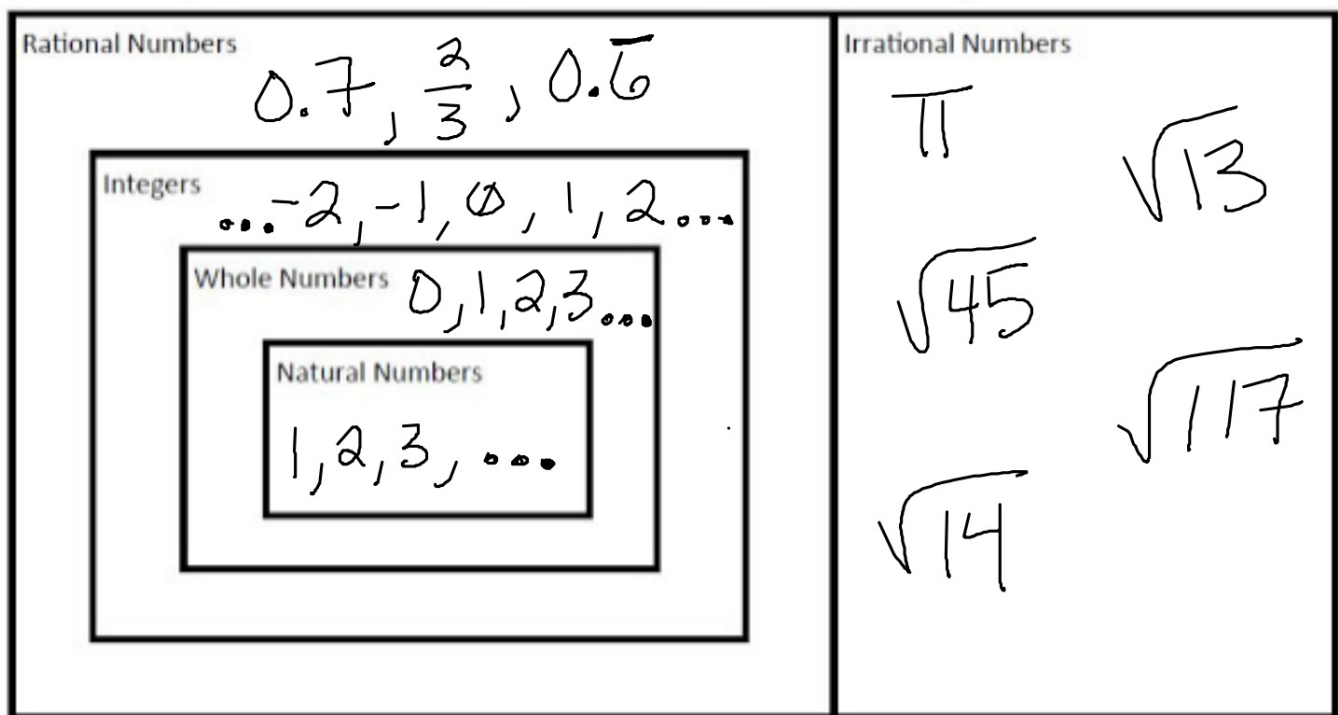
$$= \boxed{c - 39}$$

$$19. 21 - 8(w + 3) + 3 + 7w$$

$$21 - 8w - 24 + 3 + 7w$$

$$= \boxed{-w}$$

# The Real Number System



## SUBSETS OF THE REAL NUMBERS

Natural  $N: 1, 2, 3, 4, \dots$

Counting numbers

Whole  $W: 0, 1, 2, 3, \dots$

Natural numbers  $\ni \emptyset$

Integers  $Z: \dots -2, -1, 0, 1, 2, \dots$

whole #s  $\ni$  their opposites

Rational  $Q: \frac{2}{5}, -\frac{1}{11}, 2.7, 5\frac{1}{3}$

Any number that can be written as a fraction.

Irrational  $I: \pi, \sqrt{44}, 2.73\dots$

Any number that can't be written as a fraction

$37 \quad N, W, Z, Q, R$

$-37 \quad Z, Q, R$

$3\frac{1}{5} \quad Q, R$

$-\sqrt{100} \quad Z, Q, R$

$\frac{-8}{-2} \quad 4 \quad N, W, Z, Q, R$

$\sqrt{11} \quad I, R$