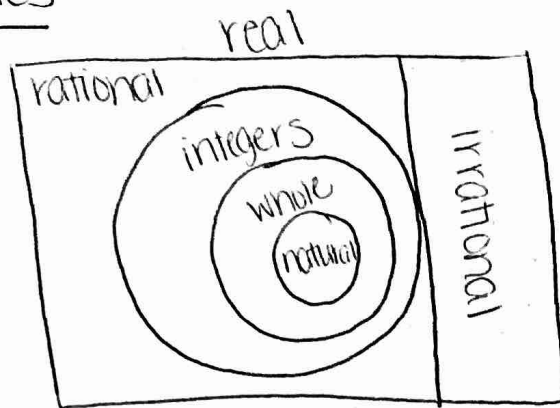


# P.1 Quiz Notes

## classifying #s



## intervals

$<, >$   $\rightarrow$  open circle,  $( )$   $\rightarrow \infty, -\infty$

$\leq, \geq$   $\rightarrow$  closed circle,  $[ ]$

unbounded: goes off to  $\pm$  infinity

bounded: has end points

## absolute value

- \* distance from zero
- \* always positive

## algebraic expressions

- \* add & subtract fractions must have common denom.
- \* multiply straight across
- \* divide  $\rightarrow$  keep, change, flip

## examples

1. given  $\{-10, 4, 9, -\frac{1}{2}, \sqrt{5}, \pi, 0, 4.2\}$

a) natural: 4, 9

b) whole: 0, 4, 9

c) integers: -10, 0, 4, 9

d) rational:  $-\frac{1}{2}, 4.2, -10, 0, 4, 9$

e) irrational:  $\sqrt{5}, \pi$

2. Find the distance from -10 to 24

(34)

3. simplify

a)  $\frac{4}{3} \left( \frac{4}{4} \right) + \frac{5}{4} \left( \frac{3}{3} \right)$

$$\frac{16}{12} + \frac{15}{12} = \frac{31}{12}$$

b)  $\frac{5}{7} \cdot 3$

$$\frac{5}{7} \cdot \frac{3}{1} = \frac{15}{7}$$

c)  $\frac{2}{3} \div \frac{5}{4}$

$$\frac{2}{3} \cdot \frac{4}{5} = \frac{8}{15}$$



a) interval notation?  $(-6, 2]$

b) inequalities?  $-6 < x \leq 2$

c) write with words  $x$  is more than  $-6$  & at most 2

d) bounded or unbounded