

Bellwork:

Find Distance
Midpoint
Slope

$$(-8, 3) \text{ ; } (4, -2)$$

$$d = \sqrt{(-8-4)^2 + (3-(-2))^2}$$

$$d = \sqrt{(-12)^2 + (5)^2}$$

$$d = \sqrt{144 + 25}$$

$$d = \sqrt{169}$$

$$d = 13$$

SLOPE

$$\frac{-2-3}{4-(-8)}$$

$$= \frac{-5}{12}$$

Midpoint

$$\left(\frac{-8+4}{2}, \frac{3+(-2)}{2} \right)$$

$$\left(\frac{-4}{2}, \frac{1}{2} \right)$$

$$\left(-2, \frac{1}{2} \right)$$

$$18 \div 2 \times 3$$

$$9 \times 3$$
$$(27)$$

$$\textcircled{3} (3-8)^2(4) - 3$$

$$(-5)^2(4) - 3$$

$$25 \cdot 4 - 3$$

$$100 - 3$$

$$(97)$$

$$\textcircled{4} 5 + 3(2 - 12 \div 2)$$

$$5 + 3(2 - 6)$$

$$5 + 3(-4)$$

$$5 + -12$$
$$(-7)$$

HW: p. 14:
1, 4-16, 19-35, 49-57

Check odd answers
AS YOU GO!

⑭ $s^2r - wt$

$s = 3$

$r = -1$

$w = -\frac{1}{2}$

$t = 12$

$(3)^2 \cdot (-1) - \left(-\frac{1}{2}\right)(12)$

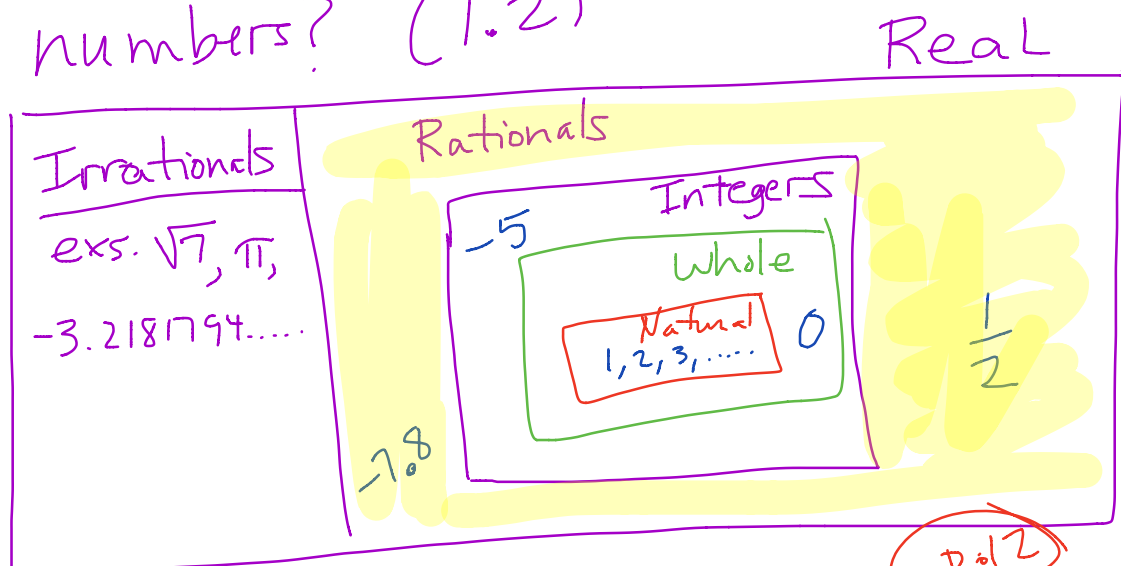
$9 \cdot (-1) - \left(-\frac{1}{2}\right)(12)$

$-9 - -6$

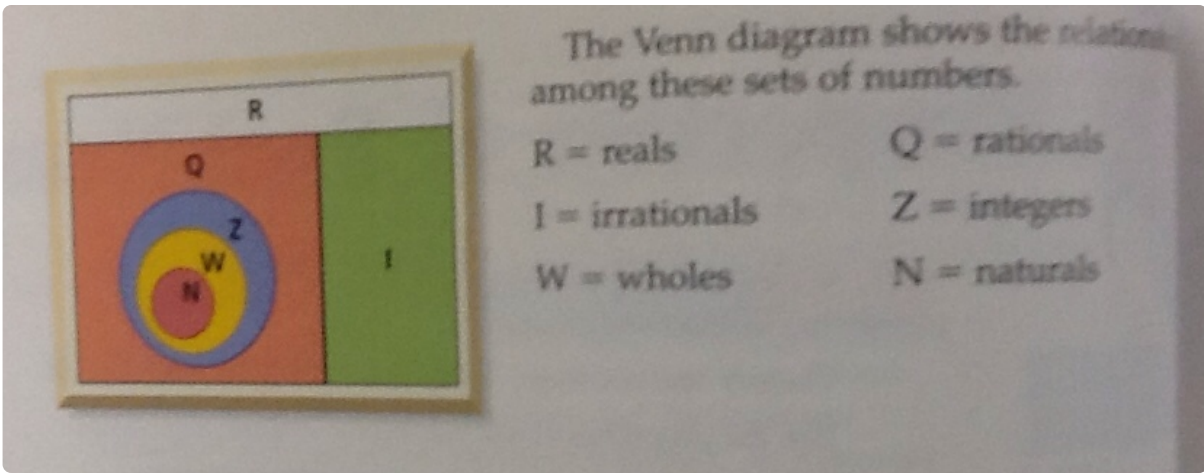
-3

10/1

How do I use properties of numbers? How do I classify numbers? (1.2)



pal 2



Rational #'s as decimals:

1.5 → ends

2. $\overline{3}$ → repeating pattern

Irrational

- Decimal that does not end
and has no pattern: ex., 1.381974.....

Irrationals - Numbers that cannot be written as a ratio of integers; decimals that do not end & do not repeat

Rational - can be written as a ratio of integers
Decimal form: → repeats, ex. 1.2222....
→ ends, ex. 1.49

Integers - whole numbers & their opposites
..., -3, -2, -1, 0, 1, 2,

Whole: 0, 1, 2, 3,

Natural: 1, 2, 3,

Counting

Number Properties p. 12

Commutative — order

I can **add** or multiply in any order.

$$3+4=4+3$$

OR

$$5 \cdot 7 = 7 \cdot 5$$

Associative \rightarrow group
ex. $(3+4)+5 =$

Inverse $3+(4+5)$

$$3 + -3 = 0$$

opposite

$$5 \cdot \frac{1}{5} = 1$$

reciprocal

Identity

- adding 0 doesn't change value

- multiply by 1 doesn't change value

Distributive:

$$3(x+1) = 3x+3$$

$$5x+10 = 5(x+2)$$

Reals: ~~\mathbb{R}~~
Rational \rightarrow Q
Integers \rightarrow ~~\mathbb{Z}~~

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