

Algebra 1 9/14

**Warm Up IXL
4th Grade
G.3**

0-2 Real Numbers

I can classify and use real numbers

Positive Numbers

values greater than 0 listed to the right of 0 on a number line

Negative Numbers

values less than 0 listed to the left of 0 on a number line

Natural Numbers

~~N~~

the counting numbers 1, 2, 3, ...

Whole Numbers

W

the counting numbers including zero 0, 1, 2, ...

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Integers



whole numbers with negatives added (no decimals/fractions) ..., -2, -1, 0, 1, 2, ...

Rational Numbers



Integers including fractions and decimals that terminate or repeat

0.5

$\frac{1}{2}$

$\frac{7}{5}$

0. $\overline{3}$

Square Root

is one of two equal factors of a number

$$\sqrt{64} = \pm 8 \text{ since } (8)(8) = 64 \text{ and } (-8)(-8) = 64$$

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Principal Square Root

is the non-negative square root of a number

Perfect Square

A number who has a whole number square root

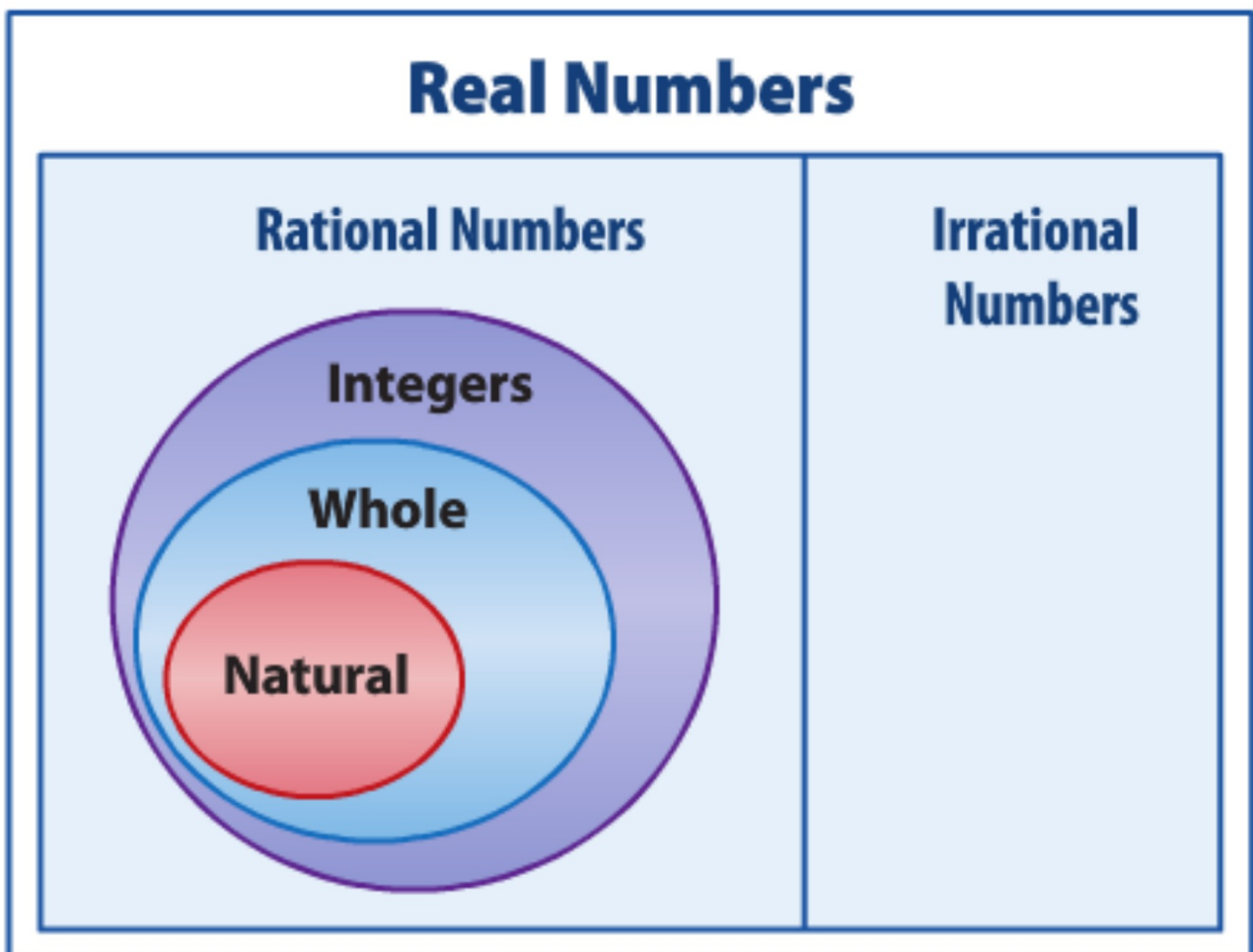
Irrational Numbers

numbers that cannot be expressed as terminating or repeating decimals

Real Numbers

The combination of the set of rational numbers and the set of irrational numbers

I can classify and use real numbers



I can classify and use real numbers

Ex. 1 Name the set or sets of numbers to which each real number belongs

A. $\frac{5}{22}$ $0.2\overline{27}$ Rational #
 \mathbb{Q} $0.2\overline{27}$

B. $\sqrt{81} = 9$
 $\mathbb{N}, \mathbb{W}, \mathbb{Z}, \mathbb{Q}$

C. $\sqrt{56}$
Irrational

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Graph

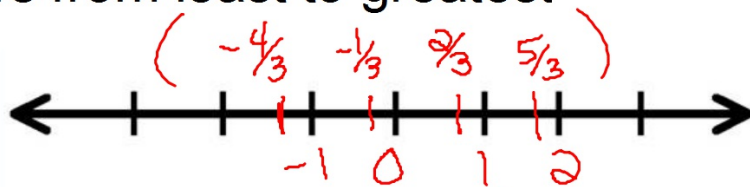
means to draw or plot the points on a number line

Coordinate

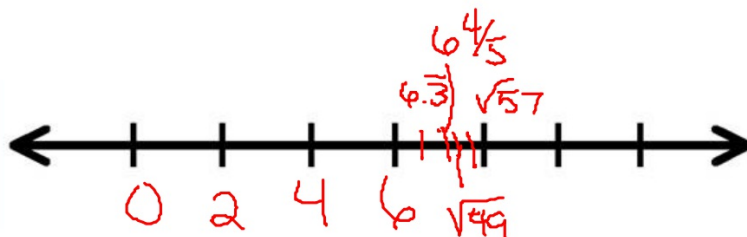
the number that corresponds to a point on a number line

Ex. 2 Graph each set of numbers on a number line. Then order the numbers from least to greatest

A. $\left\{ \frac{5}{3}, \frac{4}{3}, \frac{2}{3}, \frac{1}{3} \right\}$



B. $\left\{ 6\frac{4}{5}, \sqrt{49}, 6.\overline{3}, \sqrt{57} \right\}$



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Ex. 3 Write $0.\overline{25}$ as a fraction in simplest form

$$\frac{7}{9} \quad 0.\overline{25} \quad \frac{25}{99} \quad \begin{array}{l} \overline{66} \\ 66 \div 3 \\ \hline 99 \div 3 \end{array} \quad \begin{array}{l} 22 \div 11 \\ \hline 33 \div 11 \end{array}$$

Ex. 4 Simplify each square root

A. $\sqrt{\frac{4}{121}} = \frac{\sqrt{4}}{\sqrt{121}} = \frac{2}{11}$

$$\frac{2}{3}$$

B. $-\sqrt{\frac{49}{256}} = -\frac{\sqrt{49}}{\sqrt{256}} = -\frac{7}{16}$

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Ex. 5 Estimate each square root to the nearest whole number

A. $\sqrt{15}$

≈ 4

3.8729...

B. $\sqrt{130}$

11.40

11

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Alg 1
9/13/16
Pg P10 #2-34ev

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Hmwk

Pg P10

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