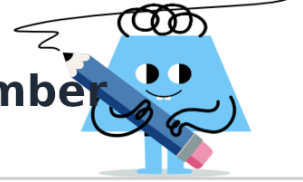




Name _____



Classify numbers within the real number system

- 1 Select the description that matches a whole number

Whole Number

- A A real number that cannot be expressed as a simple fraction (e.g., $\sqrt{2}$, π).
- B Any number that can be expressed as a fraction of two integers (e.g., $1/2$, $-3/4$, 5).
- C A non-negative integer (0, 1, 2, 3, ...).
- D A positive integer (1, 2, 3, ...).

- 2 Is this number a rational number (even if that's not it's narrowest type)?

Is 18 a rational number

A

Yes

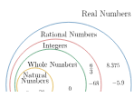
B

No

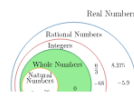
- 3 Select the grouping that matches this description

A real number that cannot be expressed as a simple fraction (e.g., $\sqrt{2}$, π).

A



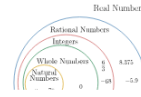
B



- 4 Select the grouping that shows whole numbers

Whole Number

A



B



- 5 Select the description of the highlighted grouping



A A positive integer (1, 2, 3, ...).

B Any number that can be found on the number line, including both rational and irrational numbers.

C A non-negative integer (0, 1, 2, 3, ...).

D Any number that can be expressed as a fraction of two integers (e.g., $1/2$, $-3/4$, 5).

- 6 Select the number that is a whole number

Whole Number

A

$$\frac{\sqrt{73}}{5}$$

B

$$\frac{0}{12}$$

C

$$\frac{49}{64}$$

- 7 Select the number that matches this description

A real number that cannot be expressed as a simple fraction (e.g., $\sqrt{2}$, π).

A

$$\frac{30}{6}$$

B

$$\frac{\sqrt{31}}{5}$$

C

$$\frac{0}{7}$$

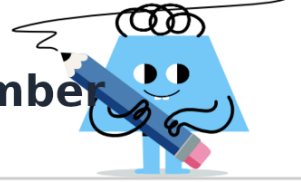
- 8 Select the narrowest grouping that matches this number type
- 22

A



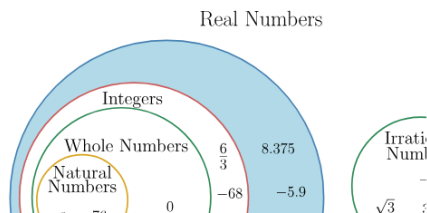
B





Classify numbers within the real number system

- 9 Select the number that would go in this grouping



A

$$-2.\overline{10}$$

B

$$\frac{\sqrt{13}}{6}$$

C

$$\frac{\sqrt{11}}{3}$$

- 10 Select the narrowest description that matches this number type

$$-1.\overline{3}$$

- A A positive integer (1, 2, 3, ...).
- B Any number that can be expressed as a fraction of two integers (e.g., 1/2, -3/4, 5).
- C A non-negative integer (0, 1, 2, 3, ...).
- D A real number that cannot be expressed as a simple fraction (e.g., $\sqrt{2}$, π).

- 11 Classify this number as natural, whole, integer, rational or irrational. Pick the narrowest definition that fits.

$$24$$

A

Natural Number

B

Irrational Number

- 12 Select the narrowest description that matches this number type

$$\frac{\sqrt{23}}{4}$$

- A Any number that can be expressed as a fraction of two integers (e.g., 1/2, -3/4, 5).
- B A positive integer (1, 2, 3, ...).
- C A non-negative integer (0, 1, 2, 3, ...).
- D A real number that cannot be expressed as a simple fraction (e.g., $\sqrt{2}$, π).