



Recognize irrational numbers

1 Select the description of the highlighted grouping



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

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

2 Select the description that matches an irrational number

Irrational Number

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

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

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

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

3 Select the number type that matches this description

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

A Rational Number

B Irrational Number

C Natural Number

D Whole Number

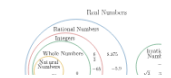
4 Select the grouping that matches this description

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

A



B



5 Select the number that matches this description

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

A $\frac{1}{36}$

B $\frac{0}{10}$

C $\sqrt{\frac{18}{2}}$

6 Is this number an irrational number (even if that's not it's narrowest type)?

Is $\frac{4}{8}$ an irrational number

A

No

B

Yes

7 Which number is between -3 and -2?

A $-\sqrt[3]{28}$

B $-\frac{1}{5}\pi$

C $-\sqrt[3]{26}$

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

0

A Natural Number

B Whole Number

C Irrational Number



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9 Select the number that is a natural number

Natural Number

A $\frac{16}{4}$

B $\frac{36}{64}$

C $\frac{\sqrt{47}}{6}$

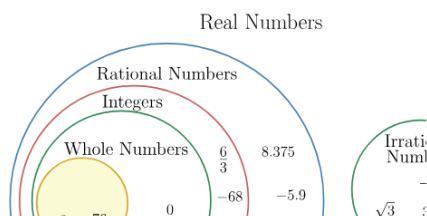
10 Which number is between 4 and 5?

A $\sqrt{21}$

B π

C $\frac{6}{5}\pi$

11 Select the number that would go in this grouping



A $-6.\overline{11}$

B $\sqrt{\frac{8}{2}}$

C $\frac{\sqrt{23}}{2}$

12 Select the narrowest description that matches this number type

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

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

B Any number that can be expressed as a fraction of two integers (e.g., $\frac{1}{2}$, $-\frac{3}{4}$, 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).