

Real or Imaginary?

Create a large Venn Diagram using the following labels:

Whole Numbers

Natural Numbers

Integers

Rational Numbers

Irrational Numbers

Real Numbers

Imaginary Numbers

Complex Numbers

Once you have drawn your Venn Diagram, decide where in your Venn Diagram each number (on the following pages) belongs.

Real or Imaginary?

$\sqrt{2}$	$\frac{\sqrt{3}}{2}$	$\frac{5}{7}$	$-3\frac{1}{2}$
0	$0.\overline{2727}$	0.1537...	3.1428...
π	$\frac{22}{7}$	$\frac{1}{3}$	0.45
$0.2\overline{4}$	$8.\overline{28}$	$0.\overline{428571}$	9

Real or Imaginary?

-2	$\frac{1}{4}$	3.642	$\sqrt{4}$
$\sqrt{-9}$	$\sqrt{841}$	$\sqrt[8]{2}$	13.05
$13.05\bar{}$	$7.4\bar{}$	7.4	-7.4
62.5%	100%	0.2685	$4 + 2i$

Real or Imaginary?

$\frac{3x + 5}{3x}$	$\frac{x - 2}{x - 2}$	$\frac{x^2 - 9}{x - 3}$	$-\sqrt{24}$
$\sqrt{1000}$	$\sqrt{1.21}$	$\frac{45}{100}$	$\frac{45}{99}$
$\frac{\sqrt{49}}{\sqrt{100}}$	$9.25\overline{67}$	$\frac{4 \frac{1}{4}}{8 \frac{1}{2}}$	-17
$-\sqrt{16}$	$\sqrt{-16}$	5.000	$7 \frac{1}{4}\%$

