

CLASSIFYING REAL NUMBERS: MYSTERY PATTERN

INSTRUCTIONS: Determine which colors you are using, color the key, and then color each value below according to the classification of the number: rational, integer, whole, natural or irrational.

Rational

Integer

Whole

Natural

Irrational

5π	$-\sqrt{64}$	$\frac{30}{3}$	$-\frac{18}{9}$	780	$-\sqrt{16}$	13	-14	$\frac{70}{7}$	$-\frac{72}{2}$	$\sqrt{36}$	$-\sqrt{9}$	4π
300	$\sqrt{209}$	-39	1.9	$-\frac{2}{3}$	-8.2	2π	$6.\overline{81}$	$12\frac{1}{2}$	$0.\overline{67}$	$-\sqrt{121}$	$\sqrt{20}$	$\frac{15}{5}$
$\frac{9}{3}$	5	π	$-\frac{50}{10}$	$.4\overline{13}$	8π	$\sqrt{7}$	π^2	3.7	-91	$-\pi$	36	250
$-\sqrt{144}$	$-\frac{20}{4}$	215	$\sqrt{12}$	$-\sqrt{100}$	$-9.\overline{4}$	$\sqrt{84}$	$\frac{8}{9}$	$-\frac{9}{3}$	$\sqrt{63}$	$\frac{75}{5}$	5.12	-1.5
$-\frac{10}{5}$	$-\sqrt{25}$	$\frac{56}{8}$	18	$\sqrt{48}$	$-\frac{132}{11}$	7.43	$-\sqrt{4}$	π^3	16	$\sqrt{25}$	-0.2	$\frac{8}{15}$
-10	-48	49	$\frac{108}{12}$	99	$\frac{\pi}{9}$	$-\frac{36}{3}$	$-\sqrt{5}$	85	$\frac{40}{8}$	88	$0.\overline{12}$	-9.6
60	$\frac{39}{13}$	$\sqrt{81}$	2	$\sqrt{400}$	625	$\frac{\pi}{3}$	$\frac{5}{1}$	$\sqrt{121}$	7	$\frac{63}{9}$	44	$\frac{58}{2}$
13π	$-\frac{5}{8}$	$\sqrt{22}$	$\frac{\pi}{11}$	6π	0	.75	0^2	$\sqrt{10}$	7π	$\sqrt{90}$.625	$\sqrt{3}$
$-\sqrt{8}$	-10.1	-9π	3.8	$\sqrt{13}$	$0.\overline{4}$	$\sqrt{21}$	$\frac{10}{11}$	$\sqrt{145}$	$-4\frac{1}{3}$	15π	$7.\overline{83}$	$\sqrt{33}$
$\sqrt{209}$	$0.\overline{77}$	$\sqrt{194}$	$\sqrt{168}$	$\sqrt{32}$	$\frac{0}{3}$	0.99	$\frac{0}{8}$	9π	$\sqrt{73}$	$\sqrt{101}$.08	10π
33	$\frac{22}{2}$	11	25	$\sqrt{225}$	101	$\sqrt{152}$	100	$\frac{80}{4}$	500	44	$\sqrt{196}$	321
.79	$-0.\overline{3}$	$\frac{56}{14}$	$\sqrt{64}$	6	$\sqrt{174}$	-18	$\sqrt{19}$	$\sqrt{16}$	50	$\sqrt{100}$	$-\sqrt{169}$	$-\frac{44}{11}$
$1.2\overline{4}$	$9\frac{7}{8}$	70	29	$\sqrt{220}$	$-\sqrt{49}$	-2π	$-\frac{90}{5}$	11π	$\frac{12}{3}$	9	$-\sqrt{36}$	-23
$\frac{16}{5}$	30.3	$\sqrt{49}$	$\sqrt{86}$	$-\frac{96}{4}$	$\sqrt{75}$	$98\frac{1}{5}$	$\sqrt{83}$	$-\sqrt{196}$	$\sqrt{93}$	111	-801	$-\frac{21}{7}$
$\frac{35}{7}$	$\sqrt{4}$	$\sqrt{181}$	$-\sqrt{225}$	50π	94.7	$0.\overline{45}$	$\frac{20}{7}$	$\sqrt{24}$	$-\frac{28}{4}$	$\sqrt{153}$	$\sqrt{169}$	80
1	12π	$-\sqrt{81}$	$\sqrt{137}$	$\sqrt{111}$	$\sqrt{131}$	-0.6	$\sqrt{57}$	14π	$\frac{\pi}{20}$	-52	$\sqrt{6}$	4