

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 1F.1 - Subsets of the Real Numbers

#1-10, Circle each subset of the reals to which each number belongs.

1.	0	natural	<input checked="" type="checkbox"/> whole	<input checked="" type="checkbox"/> integer	<input checked="" type="checkbox"/> rational	irrational	<input checked="" type="checkbox"/> real
2.	7	<input checked="" type="checkbox"/> natural	<input checked="" type="checkbox"/> whole	<input checked="" type="checkbox"/> integer	<input checked="" type="checkbox"/> rational	irrational	<input checked="" type="checkbox"/> real
3.	$\sqrt{49}$	<input checked="" type="checkbox"/> natural	<input checked="" type="checkbox"/> whole	<input checked="" type="checkbox"/> integer	<input checked="" type="checkbox"/> rational	irrational	<input checked="" type="checkbox"/> real
4.	$\sqrt{50}$	natural	whole	integer	rational	<input checked="" type="checkbox"/> irrational	<input checked="" type="checkbox"/> real
5.	9.4	natural	whole	integer	<input checked="" type="checkbox"/> rational	irrational	<input checked="" type="checkbox"/> real
6.	$9.\bar{4}$	natural	whole	integer	<input checked="" type="checkbox"/> rational	irrational	<input checked="" type="checkbox"/> real
7.	-9.4	natural	whole	integer	<input checked="" type="checkbox"/> rational	irrational	<input checked="" type="checkbox"/> real
8.	-9	natural	whole	<input checked="" type="checkbox"/> integer	<input checked="" type="checkbox"/> rational	irrational	<input checked="" type="checkbox"/> real
9.	6π	natural	whole	integer	rational	<input checked="" type="checkbox"/> irrational	<input checked="" type="checkbox"/> real
10.	$\frac{7}{3}$	natural	whole	integer	<input checked="" type="checkbox"/> rational	irrational	<input checked="" type="checkbox"/> real

11. List every integer between -4.5 and 5.3.

↳ positive or negative whole number or zero
 -4, -3, -2, -1, 0, 1, 2, 3, 4, 5

12. List every natural number between -4.5 and 5.3.

↳ counting numbers
 1, 2, 3, 4, 5

13. List every whole number between -4.5 and 5.3.

↳ zero plus the counting numbers
 0, 1, 2, 3, 4, 5

14. When written as a decimal, irrational numbers repeat / do not repeat. (circle one)15. Irrational numbers can / cannot be written as a fraction. (circle one)16. Repeating decimals are rational / irrational. (circle one)