

## Rational Numbers Worksheets

1. In the table below, list each set of rational numbers in order from least to greatest. Then, list their opposites. Finally, list the opposites in order from least to greatest. The first example has been completed for you.

Rational Numbers	Ordered from Least to Greatest	Opposites	Opposites Ordered from Least to Greatest
-7.1, -7.25	-7.25, -7.1	7.25, 7.1	7.1, 7.25
$\frac{1}{4}$ , $-\frac{1}{2}$			
2, -10			
0, $3\frac{1}{2}$			
-5, -5.6			
$24\frac{1}{2}$ , 24			
-99.9, -100			
-0.05, -0.5			
-0.7, 0			
100.02, 100.04			

2. For each row, what pattern do you notice between the numbers in the second and fourth columns? Why is this so?

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-7.1, -7.25	-7.25, -7.1	7.25, 7.1	7.1, 7.25
$\frac{1}{4}, -\frac{1}{2}$	$-\frac{1}{2}, \frac{1}{4}$	$\frac{1}{2}, -\frac{1}{4}$	$-\frac{1}{4}, \frac{1}{2}$
2, -10	-10, 2	10, -2	-2, 10
0, $3\frac{1}{2}$	0, $3\frac{1}{2}$	0, $-3\frac{1}{2}$	$-3\frac{1}{2}$ , 0
-5, -5.6	-5.6, -5	5.6, 5	5, 5.6
$24\frac{1}{2}$ , 24	24, $24\frac{1}{2}$	-24, $-24\frac{1}{2}$	$-24\frac{1}{2}$ , -24
-99.9, -100	-100, -99.9	100, 99.9	99.9, 100
-0.05, -0.5	-0.5, -0.05	0.5, 0.05	0.05, 0.5
-0.7, 0	-0.7, 0	0.7, 0	0, 0.7
100.02, 100.04	100.02, 100.04	-100.02, -100.04	-100.04, -100.02

2. For each row, what pattern do you notice between the numbers in the second and fourth columns? Why is this so?

*For each row, the numbers in the second and fourth columns are opposites, and their order is opposite. This is because on the number line, as you move to the right, numbers increase. But as you move to the left, the numbers decrease. So, when comparing 5 and 10, 10 is to the right of 5; therefore, 10 is greater than 5. However, -10 is to the left of -5; therefore, -10 is less than -5.*

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