



Name: _____

Due Date: _____

Teacher: _____

Parent Sign: _____

Math Worksheet for 6th Grade

Rational numbers on the number line

1. Which is farther to the left on the number line: -0.4 or -0.9 ?
2. Which is closer to zero: -0.25 or -0.75 ?
3. Order these from left (smallest) to right (largest): -1.3 , -0.13 , 0 , -0.8 .
4. On a number line, which point is to the right of -2.5 : -3.1 , -2.6 , -2.3 ?
5. Which is greater: -0.5 or 0.5 ?
6. Place these numbers in increasing order: -0.6 , 0 , -0.06 , 0.6 .
7. Is -0.05 closer to 0 or to -1 ?
8. Which is larger: $-\frac{3}{10}$ or -0.3 ?
9. Convert 0.75 to a fraction and say where it would be on a number line between 0 and 1 .
10. Convert -0.8 to a fraction and indicate between which two integers it lies.
11. Which is located to the right on the number line: -1.25 or -1.2 ?
12. Between which two consecutive tenths does -0.47 lie?
13. Which is larger: -2.05 or -2.5 ?
14. Find the midpoint on the number line between -1.2 and 0.4 .
15. How far apart are -0.9 and 0.2 on the number line?
16. A thermometer reads -3.6 degC in the morning and -0.8 degC at noon. How much did the temperature change?
17. A submarine is at -125.4 meters and rises to -100.0 meters. How many meters did it rise?
18. Which is greater: $-\frac{4}{5}$ or -0.8 ? Explain.
19. Put these in order from smallest to largest: $\frac{3}{4}$, -0.75 , 0.75 , $-\frac{3}{4}$.
20. Convert $-\frac{7}{10}$ to a decimal and locate it between two integers.
21. Mark (identify) the number that is exactly halfway between -0.2 and -0.8 .
22. Which number is closer to -1 : -1.01 or -0.99 ?
23. Place these numbers on a number line in order: -1.6 , -1.06 , -1.6 , -1.006 (note: one repeats).
24. Fill the blank: The number $-0.333\dots$ (repeating) is approximately -0.33 . Which fraction equals $-\frac{1}{3}$? Where would you place it relative to -0.3 and -0.4 ?
25. Find a decimal between -0.5 and -0.45 .
26. On a number line with tick marks every 0.1 , which tick mark names -0.7 , the 7th to left of 0 or the 6th?
27. A bank account shows -12.5 dollars (overdraft). You deposit 5.2 dollars. What is the new balance?
28. Add on the number line: $-0.6 + 0.9 = ?$
29. Subtract on the number line: $-0.4 - 0.7 = ?$
30. Which is farther from zero: -0.125 or -0.5 ?
31. Convert $\frac{2}{5}$ to a decimal and say where it would be between 0 and 1 .



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32. How many numbers with one decimal place are there between -1.0 and 0.0 (inclusive of ends)?
33. Find the average (mean) of -0.2, 0, and 0.8. Where is this on the number line?
34. A plane is flying at 3.2 km above sea level. Another plane is flying at -1.5 km relative to a reference point (below it). How far apart vertically are they?
35. Which of these is greatest: -0.333 , $-\frac{1}{3}$, -0.34 ?
36. On a number line segment from -2 to -1, what point corresponds to $-1\frac{1}{2}$ written as a decimal?
37. Write -0.625 as a fraction in simplest form and indicate between which two consecutive tenths it lies.
38. If point A is at -0.4 and point B is at 0.6, what fraction of the distance from A to B is the point at 0.0?
39. Find a fraction equivalent to 0.2 and say where it is on the number line.
40. Place these numbers in order from left to right: $-\frac{5}{2}$, -2.5, -2.49, $-2\frac{1}{2}$.
41. A diver descends from sea level to -12.75 m and then rises to -3.25 m. How much did the diver ascend?
42. Which is to the right on the number line: -0.001 or -0.01?
43. Between -0.2 and 0.2, list three decimals with two decimal places.
44. On a number line, point X is at -0.35 and point Y is at 0.15. What is the distance XY?
45. Convert 0.125 to a fraction and describe its position between 0 and 1.
46. A hiker at -0.9 km relative to a trailhead walks 1.4 km toward positive direction. Where is the hiker now?
47. If you place $-\frac{3}{10}$, -0.03, and -0.3 on the number line, which is in the middle?
48. Which is greater: -1.75 or $-\frac{7}{4}$?
49. On a number line, three equally spaced points between 0 and 1 are marked. What decimal values are these three points?
50. Find a rational number (as a decimal) that lies between -0.666 and -0.665.