



# Math Worksheet for 6th Grade

## Comparing negative numbers

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

Here are 50 sixth-grade math questions on comparing negative numbers (mix of numeracy and word problems). Answers are listed at the end.

### Questions

1. Which is greater: -3 or -7?

2. Fill in the correct sign ( $>$ ,  $<$ ,  $=$ ): -5

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— -2

3. Which is farther to the right on a number line: -1.5 or -2?

4. Which is greater: -4.2 or -4.25?

5. Fill in the correct sign:  $-\frac{3}{4}$

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— -0.75

6. Which is greater: -10 or 0?

7. Order from least to greatest: -2, 3, -5, 0

8. Order from greatest to least: -1, -6, 2, -3

9. Compare using  $>$ ,  $<$ , or  $=$ : -0.2

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— -0.02

10. Which is greater: -8.1 or -8.01?

11. Fill in the sign: -9

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— -12

12. Which is larger on a number line: -0.5 or 0?

13. Which is greater:  $-\frac{1}{2}$  or  $-\frac{2}{3}$ ?

14. Compare:  $-\frac{7}{5}$  and -1.4 (use  $>$ ,  $<$ , or  $=$ )

15. Order least to greatest: -3.5, -3.05, -4, -2.9

16. Which integer is greater: -100 or -99?

17. Fill in the correct sign: -6.2

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— -6.20

18. Which is greater: -2.1 or -2.01?

19. Compare -0.9 and  $-\frac{9}{10}$  (use  $>$ ,  $<$ , or  $=$ )

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20. On a number line, which point is to the left: -4 or 1?
21. A thermometer reads  $-5^{\circ}\text{C}$  on Tuesday and  $-2^{\circ}\text{C}$  on Wednesday. Which day was warmer?
22. A submarine is at -120 m and then goes down to -150 m. Which depth is greater (deeper)?
23. Tim has \$-8 (he owes \$8) and Sara has \$-3. Who has the greater (less negative) balance?
24. Mount A is 800 m above sea level; Mount B is -50 m (below sea level). Which elevation is higher?
25. A diver descends from 0 m to -30 m and then to -15 m. At which depth was the diver deeper?
26. A bank account went from \$10 to \$-7. Which balance is greater?
27. Compare using  $<$ ,  $>$ , or  $=$ :  $-2$  \_\_\_\_\_  $2$
28. Order from least to greatest:  $-\frac{1}{8}$ , -0.125, 0, -0.13
29. Which is greater:  $-\frac{11}{2}$  or -5.5?
30. Which is greater: -0.001 or -0.01?
31. Fill in the sign:  $-\frac{4}{3}$  \_\_\_\_\_ -1.33
32. Which is farther from zero: -6 or 4?
33. Two hikers: one is at -200 ft (below sea level), the other at 50 ft. Who is higher?
34. Temperature at 6 AM was  $-2.4^{\circ}\text{C}$ , at noon it was  $-2.75^{\circ}\text{C}$ . Which time was warmer?
35. Fill in the correct sign:  $-0.7$  \_\_\_\_\_  $-0.70$
36. Order from greatest to least: -0.2, -0.02, -2, 0
37. Compare and put an inequality: -15 \_\_\_\_\_ -150
38. Which is greater: -3.33 or -3.3?
39. A parking garage levels: ground floor 0, basement 1: -12 ft, basement 2: -24 ft. Which is the lowest?
40. Fill in the sign:  $-1.25$  \_\_\_\_\_  $-\frac{5}{4}$
41. Which is greater: -9.999 or -10.0?
42. Round and compare: which is greater when rounded to one decimal place: -2.44 or -2.46?
43. Fill in:  $-\frac{1}{10}$  \_\_\_\_\_ -0.1
44. Which is greater: -123 or -321?
45. A loan: John owes \$45, Mary owes \$54. Who has the greater debt (more negative balance)?
46. Place these in order from least to greatest: -3, -3.1, -2.9, -3.01
47. Compare:  $-0.333\dots$  (repeating) \_\_\_\_\_  $-\frac{1}{3}$
48. Which temperature is warmer:  $-0.5^{\circ}\text{C}$  or  $-0.05^{\circ}\text{C}$ ?
49. A submarine moves from -80 m to -20 m. Is it moving to a greater or lesser depth?
50. Fill in the sign:  $-2.5$  \_\_\_\_\_  $-2.50$

Answers

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1.  $-3$  (because  $-3 > -7$ )
2.  $-5 < -2$
3.  $-1.5$  (it is to the right of  $-2$ )
4.  $-4.2$  (because  $-4.2 > -4.25$ )
5.  $-\frac{3}{4} = -0.75$
6.  $0$  ( $0 > -10$ )
7. Least to greatest:  $-5, -2, 0, 3$
8. Greatest to least:  $2, -1, -3, -6$
9.  $-0.2 < -0.02$
10.  $-8.01$  (because  $-8.01 > -8.1$ ) — careful:  $-8.01$  is closer to zero, so greater
11.  $-9 > -12$
12.  $0$  ( $0$  is greater than  $-0.5$  and is to the right)
13.  $-\frac{1}{2} > -\frac{2}{3}$  (because  $-0.5 > -0.666\dots$ )
14.  $-\frac{7}{5} = -1.4$  (they are equal)
15. Least to greatest:  $-4, -3.5, -3.05, -2.9$
16.  $-99$  (because  $-99 > -100$ )
17.  $-6.2 = -6.20$
18.  $-2.01 > -2.1$  (because  $-2.01$  is closer to zero)
19.  $-0.9 = -\frac{9}{10}$
20.  $-4$  (it is to the left of  $1$ )
21. Wednesday ( $-2^\circ\text{C}$  is warmer than  $-5^\circ\text{C}$ )
22.  $-150$  m is deeper (more negative means deeper)
23. Sara ( $-\$3$  is greater than  $-\$8$ ; Sara has the greater balance)
24. Mount A ( $800$  m is higher than  $-50$  m)
25.  $-30$  m (deeper than  $-15$  m)
26.  $\$10$  is greater than  $-\$7$  (the  $\$10$  balance is greater)
27.  $-2 < 2$
28. Least to greatest:  $-0.13, -0.125, -\frac{1}{8}$  (which equals  $-0.125$ ),  $0$   
(Note:  $-0.13 < -0.125$ ;  $-0.125 = -\frac{1}{8}$ ; then  $0$ )
29.  $-\frac{11}{2} = -5.5$  (they are equal)
30.  $-0.001 > -0.01$  (because  $-0.001$  is closer to zero)
31.  $-\frac{4}{3} < -1.33$  (since  $-\frac{4}{3} = -1.333\dots$  which is less than  $-1.33$ )



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32. -6 (because  $|-6| = 6$  which is greater than  $|4| = 4$ )

33. The hiker at 50 ft is higher

34. 6 AM ( $-2.4^{\circ}\text{C}$  is warmer than  $-2.75^{\circ}\text{C}$ )

35.  $-0.7 = -0.70$

36. Greatest to least: 0, -0.02, -0.2, -2

37.  $-15 > -150$

38. -3.3 (because  $-3.3 > -3.33$ )

39. Basement 2 (-24 ft is the lowest / deepest)

40.  $-1.25 = -\frac{5}{4}$

41.  $-9.999 > -10.0$  (since -9.999 is closer to zero)

42. Round to one decimal:

$-2.44 \rightarrow -2.4$ ;  $-2.46 \rightarrow -2.5$ ; so  $-2.4 > -2.5 \rightarrow -2.44$  is greater when rounded

43.  $-\frac{1}{10} = -0.1$

44.  $-123 > -321$

45. Mary (owing \$54 is a larger debt than \$45)

46. Least to greatest: -3.1, -3.01, -3, -2.9

47.  $-0.333\dots = -\frac{1}{3}$  (they are equal)

48.  $-0.05^{\circ}\text{C}$  is warmer (because it is closer to zero:  $-0.05 > -0.5$ )

49. Moving to a lesser depth (from -80 m up to -20 m is moving toward the surface; -20 m is greater than -80 m)

50.  $-2.5 = -2.50$

If you want these organized into printable worksheets or with number-line diagrams for some questions, I can format them that way.