

Practice 2-7

Rational Numbers

Compare. Use $<$, $>$, or $=$.

1. $\frac{2}{9} \square \frac{4}{9}$

2. $-\frac{1}{6} \square -\frac{2}{3}$

3. $-\frac{5}{12} \square -\frac{3}{4}$

4. $-1.2 \square -2.1$

5. $-0.6 \square -0.52$

6. $-1.23 \square -1.25$

7. $-5.3 \square -5.\bar{3}$

8. $-3\frac{1}{4} \square -3.25$

9. $-4\frac{2}{5} \square -4.12$

Order from least to greatest.

10. $\frac{5}{4}, 1.5, -\frac{3}{2}, -0.5$

11. $\frac{1}{11}, -0.9, 0.09, \frac{1}{10}$

12. $0.\bar{1}\bar{2}, \frac{11}{12}, \frac{1}{6}, -0.1$

13. $\frac{2}{3}, 0.6, -\frac{5}{6}, -6.6$

14. $1.3\bar{1}\bar{2}, 1\frac{3}{8}, -1\frac{3}{10}, -1.33$

15. $1, \frac{4}{5}, -\frac{8}{9}, -1$

Evaluate. Write in simplest form.

16. $\frac{y}{z}$, for $y = -6$ and $z = -20$ _____

17. $\frac{2y}{-z}$, for $y = -5$ and $z = -12$ _____

18. $\frac{y+z}{2z}$, for $y = -4$ and $z = 8$ _____

19. $\frac{-2y+1}{-z}$, for $y = 3$ and $z = 10$ _____

Compare.

20. The temperature at 3:00 A.M. was -17.3°F . By noon the temperature was -17.8°F . At what time was it the coldest?

21. Samuel is $\frac{5}{8}$ taller than Jackie. Shelly is 0.7 in. taller than Jackie. Who is the tallest?

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