



MATHS

BOOKS - SUBHASH PUBLICATION

RATIONAL NUMBERS

Example

1. List five rational numbers between: -1 and 0



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2. List five rational numbers between: -2 and -1



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3. List five rational numbers between: $-\frac{4}{5}$ and $-\frac{1}{3}$



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4. List five rational numbers between: $-\frac{1}{2}$ and $\frac{2}{3}$



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5. Write four more rational numbers in each of

the following patterns: $-\frac{3}{5}, -\frac{6}{10}, -\frac{9}{15}, -\frac{12}{20}$.



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6. Write four more rational numbers in each of

the following patterns: $-\frac{1}{4}, -\frac{2}{8}, -\frac{3}{12}$.



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7. Write four more rational numbers in each of the following patterns: $-\frac{1}{6}, \frac{2}{-12}, -\frac{3}{-12}, \frac{4}{-24}, \dots$.



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8. Write four more rational numbers in each of the following patterns: $-\frac{2}{3}, \frac{2}{-3}, \frac{4}{-6}, \frac{6}{-9}, \dots$.



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9. Give four rational numbers equivalent to:

$$-\frac{2}{7}$$



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10. Give four rational numbers equivalent to:

$$\frac{5}{-3}$$



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11. Give four rational numbers equivalent to:

$$\frac{4}{9}$$



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12. Draw the number line and represent the following rational numbers on it: $\frac{3}{4}$



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13. Draw the number line and represent the following rational numbers on it: $-\frac{5}{8}$



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14. Draw the number line and represent the following rational numbers on it: $-\frac{7}{4}$



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15. Draw the number line and represent the following rational numbers on it: $\frac{7}{8}$



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16. The points P,Q,R,S,T,U,A and B on the number line are such that, $TR=RS=SU$ and $AP=PQ=QB$. Name the rational numbers represented by P,Q,R and S.



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17. Which of the following pairs represent the same rational number: $-\frac{7}{21}$ and $\frac{3}{9}$



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18. Which of the following pairs represent the same rational number: $-\frac{16}{20}$ and $\frac{20}{-25}$



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19. Which of the following pairs represent the same rational number: $\frac{-2}{-3}$ and $\frac{2}{3}$



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20. Which of the following pairs represent the same rational number: $\frac{-3}{5}$ and $-\frac{12}{20}$



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21. Which of the following pairs represent the same rational number: $\frac{8}{-5}$ and $-\frac{24}{15}$



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22. Which of the following pairs represent the same rational number: $\frac{1}{3}$ and $-\left(\frac{1}{9}\right)$



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23. Which of the following pairs represent the same rational number: $\frac{-5}{-9}$ and $\frac{5}{-9}$



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24. Rewrite the following rational numbers in the simplest form: $-\frac{8}{6}$



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25. Rewrite the following rational numbers in

the simplest form: $\frac{25}{45}$



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26. Rewrite the following rational numbers in

the simplest form: $-\frac{44}{72}$



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27. Rewrite the following rational numbers in

the simplest form: $-\frac{8}{10}$



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28. Fill in the boxes with the correct symbol

out of $>$, $<$, and $=$: $\frac{-5}{7} \square \frac{2}{3}$



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29. Fill in the boxes with the correct symbol

out of $>$, $<$, and $=$: $\frac{-4}{5} \square \frac{-5}{7}$



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30. Fill in the boxes with the correct symbol

out of $>$, $<$, and $=$: $\frac{-7}{8} \square \frac{14}{-16}$



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31. Fill in the boxes with the correct symbol

out of $>$, $<$, and $=$: $\frac{-8}{5} \square \frac{-7}{4}$



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32. Fill in the boxes with the correct symbol

out of $>$, $<$, and $=$: $\frac{1}{-3} \square \frac{-1}{4}$



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33. Fill in the boxes with the correct symbol

out of $>$, $<$, and $=$: $\frac{5}{-11} \square \frac{-5}{11}$



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34. Fill in the boxes with the correct symbol

out of $>$, $<$, and $=$: $0 \square \frac{-7}{6}$



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35. Which is greater in each of the following:

$$\frac{2}{3}, \frac{5}{2}$$



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36. Which is greater in each of the following:

$$\frac{-5}{6}, \frac{-4}{3}$$



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37. Which is greater in each of the following:

$$\frac{-3}{4}, \frac{2}{-3}$$



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38. Which is greater in each of the following:

$$\frac{-1}{4}, \frac{1}{4}$$



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39. Which is greater in each of the following:

$$-\frac{32}{7}, -\frac{34}{5}$$



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40. Write the following rational numbers in

ascending order: $\frac{-3}{5}, \frac{-2}{5}, \frac{-1}{5}$



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41. Write the following rational numbers in

ascending order: $\frac{-1}{3}$, $\frac{-2}{9}$, $\frac{-4}{3}$



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42. Write the following rational numbers in

ascending order: $\frac{-3}{7}$, $\frac{-3}{2}$, $\frac{-3}{4}$



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43. Find the sum: $\frac{5}{4} + \left(\frac{-11}{4}\right)$



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44. Find the sum: $\frac{5}{3} + \left(\frac{3}{5}\right)$



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45. Find the sum: $\frac{-9}{10} + \left(\frac{22}{15}\right)$



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46. Find the sum: $\frac{-3}{-11} + \left(\frac{5}{9}\right)$



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47. Find the sum: $\frac{-8}{19} + \left(-\frac{2}{57}\right)$



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48. Find the sum: $\frac{-2}{3} + 0$



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49. Find the sum: $-2\frac{1}{3} + 4\left(\frac{3}{5}\right)$



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50. Find: $\frac{7}{24} - \frac{17}{36}$



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51. Find: $\frac{5}{63} - \frac{-6}{21}$



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52. Find: $\frac{-6}{13} - \frac{-7}{15}$



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53. Find: $\frac{-3}{8} - \frac{7}{11}$



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54. Find: $-2\frac{1}{9} - 6$



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55. Find the product: $\frac{9}{2} \times \left(\frac{-7}{4}\right)$



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56. Find the product: $\frac{3}{10} \times (-9)$



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57. Find the product: $\frac{-6}{5} \times \frac{9}{11}$



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58. Find the product: $\frac{3}{7} \times \left(\frac{-2}{5}\right)$



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59. Find the product: $\frac{3}{11} \times \frac{2}{5}$



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60. Find the product: $\frac{3}{-5} \times \frac{-5}{3}$



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61. Find the value of: $(-4) \div \frac{2}{3}$



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62. Find the value of: $\frac{2}{3} \div 2$



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63. Find the value of: $\frac{-4}{5} \div (-3)$



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64. Find the value of: $\frac{-1}{8} \div \frac{3}{4}$



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65. Find the value of: $\frac{-2}{13} \div \frac{1}{7}$



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66. Find the value of: $\frac{-7}{12} \div \left(\frac{-2}{13}\right)$



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67. Find the value of: $\frac{3}{13} \div \left(\frac{-4}{65}\right)$



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