MATHS

BOOKS - PSEB

RATIONAL NUMBERS

Example

1. Is the number $\frac{2}{-3}$ rational? Think about it.

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2. List ten rational numbers.

3. Is 5 a positive rational number?

4. List five more positive rational number?

5. Is -8 a negative rational number?

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6. List five more negative rational number.

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7. Which of these are negative rational numbers?

$-\frac{2}{3}$

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8. Which of these are negative rational numbers?

$\frac{5}{7}$

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9. Which of these are negative rational numbers?

$\frac{3}{-5}$

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10. Which of these are negative rational numbers?

0

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11. Which of these are negative rational numbers?

$\frac{6}{11}$

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12. Which of these are negative rational numbers?

$$-\frac{2}{-9}$$

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13. Reduce $-\frac{45}{30}$ to the standard form.

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14. Reduce to standard form:

$$\frac{36}{-24}$$

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15. Reduce to standard form:

$$-\frac{3}{-15}$$

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16. Find the standard form of

$$-\frac{18}{45}$$

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17. Find the standard form of

$$-\frac{12}{18}$$

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18. Do $\frac{4}{-9}$ and $-\frac{16}{36}$ represent the same rational number?

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19. List three rational numbers between – 2 and – 1.

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20. Write four more numbers in the following pattern:

$$-\frac{1}{3}, -\frac{2}{6}, -\frac{3}{9}, -\frac{4}{12}, \ldots\ldots$$

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21. List five rational numbers between:

-1 and 0

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22. List five rational numbers between:

-2 and -1

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23. List five rational numbers between:

$-\frac{4}{5}$ and $-\frac{2}{3}$

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24. List five rational numbers between:

$-\frac{1}{2}$ and $\frac{2}{3}$

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25. Write four more rational numbers in each of the following patterns:

$-\frac{3}{5}, -\frac{6}{10}, -\frac{9}{15}, -\frac{12}{20}, \ldots\ldots$

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26. Write four more rational numbers in each of the following patterns:

$$-\frac{1}{4}, -\frac{2}{8}, -\frac{3}{12}, \ldots\ldots$$

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27. Write four more rational numbers in each of the following patterns:

$$-\frac{1}{6}, \frac{2}{-12}, \frac{3}{-18}, \frac{4}{-24}, \ldots\ldots$$

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28. Write four more rational numbers in each of the following patterns:

$$-\frac{2}{3}, \frac{2}{-3}, \frac{4}{-6}, \frac{6}{-9}, \ldots\ldots$$

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29. Give four rational numbers equivalent to:

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

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30. Give four rational numbers equivalent to:

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

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31. Give four rational numbers equivalent to:

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

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32. Draw the number line and represent the following rational numbers on it:

$\frac{3}{4}$

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33. Draw the number line and represent the following rational numbers on it:

$-\frac{5}{8}$

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34. Draw the number line and represent the following rational numbers on it:

$-\frac{7}{4}$

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35. Draw the number line and represent the following rational numbers on it:

$\frac{7}{8}$

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36. Which of the following pairs represent the same rational number?

$-\frac{7}{21}$ and $\frac{3}{9}$

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37. Which of the following pairs represent the same rational number?

$-\frac{16}{20}$ amd $\frac{20}{-25}$

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38. Which of the following pairs represent the same rational number?

$-\frac{2}{-3}$ amd $\frac{2}{3}$

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39. Which of the following pairs represent the same rational number?

$-\frac{3}{5}$ and $-\frac{12}{20}$

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40. Which of the following pairs represent the same rational number?

$\frac{8}{-5}$ and $-\frac{24}{15}$

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41. Which of the following pairs represent the same rational number?

$\frac{1}{3}$ and $-\frac{1}{9}$

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42. Which of the following pairs represent the same rational number?

$-\frac{5}{-9}$ and $\frac{5}{-9}$

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43. Rewrite the following rational numbers in the simplest form:

$-\frac{8}{6}$

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44. Rewrite the following rational numbers in the simplest form:

$$\frac{25}{45}$$

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45. Rewrite the following rational numbers in the simplest form:

$$-\frac{44}{72}$$

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46. Rewrite the following rational numbers in the simplest form:

$$-\frac{8}{10}$$

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47. Fill in the boxes with the correct symbol out of >, <, and =.

$$-\frac{5}{7} \square \frac{2}{3}$$

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48. Fill in the boxes with the correct symbol out of >, <, and =.

$$-\frac{4}{5} \square -\frac{5}{7}$$

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49. Fill in the boxes with the correct symbol out of >, <, and =.

$$-\frac{7}{8} \square \frac{14}{-16}$$

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50. Fill in the boxes with the correct symbol out of >, <, and =.

$$-\frac{8}{5} \square -\frac{7}{4}$$

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51. Fill in the boxes with the correct symbol out of >, <, and =.

$$\frac{1}{-3} \square -\frac{1}{4}$$

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52. Fill in the boxes with the correct symbol out of >, <, and =.

$$\frac{5}{-11} \square -\frac{5}{11}$$

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53. Fill in the boxes with the correct symbol out of >, <, and =.

$$0 \square -\frac{7}{6}$$

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54. Which is greater in each of the following:

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

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55. Which is greater in each of the following:

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

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56. Which is greater in each of the following:

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

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57. Which is greater in each of the following:

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

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58. Which is greater in each of the following:

$$-3\frac{2}{7}, \ -3\frac{4}{5}$$

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59. Write the following rational numbers in ascending order:

$$-\frac{3}{5}, -\frac{2}{5}, -\frac{1}{5}$$

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60. Write the following rational numbers in ascending order:

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

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61. Write the following rational numbers in ascending order:

$$-\frac{3}{7}, -\frac{3}{2}, -\frac{3}{4}$$

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62. Find: $-\frac{13}{7}+\frac{6}{7}, \frac{19}{5}+\left(-\frac{7}{5}\right)$

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63. What will be tha additive inverse of $-\frac{3}{9}?, -\frac{9}{11}?, \frac{5}{7}?$

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64. Satpal walks $\frac{2}{3}$ km from a place P, towards east and then from there $1\frac{5}{7}$ km towards west. Where will he be now from P?

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65. Find:

$$\frac{7}{9} - \frac{2}{5}$$

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66. Find:

$$2\frac{1}{5} - \frac{-1}{3}$$

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67. What will be

$$-\frac{3}{5} \times 7?$$

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68. What will be

$$-\frac{6}{5} \times (-2)?$$

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69. Find:

$$-\frac{3}{7} \times \frac{1}{7}$$

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70. Find:

$$\frac{2}{3} \times -\frac{5}{9}$$

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71. What will be the reciprocal of $-\frac{6}{11}$? and $-\frac{8}{5}$?

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72. Find:

$$\frac{2}{3} \times -\frac{7}{8}$$

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73. Find:

$$-\frac{6}{7} \times \frac{5}{7}$$

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74. Find the sum:

$$\frac{5}{4} + \left(\frac{-11}{4}\right)$$

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75. Find the sum:

$$\frac{5}{3} + \frac{3}{5}$$

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76. Find the sum:

$$-\frac{9}{10}+\frac{22}{15}$$

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77. Find the sum:

$$-\frac{3}{-11}+\frac{5}{9}$$

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78. Find the sum:

$$-\frac{8}{19}+\frac{-2}{57}$$

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79. Find the sum:

$$-\frac{2}{3}+0$$

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80. Find the sum:

$$-2\frac{1}{3}+4\frac{3}{5}$$

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81. Find

$$\frac{7}{24}-\frac{17}{36}$$

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82. Find

$$\frac{7}{24} - \frac{17}{36}$$

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83. Find

$$\frac{5}{63} - \left(\frac{-6}{21}\right)$$

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84. Find

$$-\frac{6}{13}-\left(\frac{-7}{15}\right)$$

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85. Find

$$-\frac{3}{8}-\frac{7}{11}$$

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86. Find

$$-2\frac{1}{9} - 6$$

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87. Find the product:

$$\frac{9}{2} \times \left(\frac{-7}{4}\right)$$

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88. Find the product:

$$\frac{3}{10} \times (-9)$$

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89. Find the product:

$$\frac{-6}{5} \times \frac{9}{11}$$

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90. Find the product:

$$\frac{3}{7} \times \left(\frac{-2}{5}\right)$$

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91. Find the product:

$$\frac{3}{11} \times \frac{2}{5}$$

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92. Find the product:

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

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93. Find the value of:

$$(-4) \div \frac{2}{3}$$

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94. Find the value of:

$$\frac{-3}{5} \div 2$$

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95. Find the value of:

$$\frac{-4}{5} \div (-3)$$

Watch Video Solution

96. Find the value of:

$$\frac{-1}{8} \div \frac{3}{4}$$

Watch Video Solution

97. Find the value of:

$$\frac{-2}{13} \div \frac{1}{7}$$

Watch Video Solution

98. Find the value of:

$$\frac{-7}{12} \div \left(\frac{-2}{13}\right)$$

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99. Find the value of:

$$\frac{3}{13} \div \left(\frac{-4}{65}\right)$$

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