



MATHS

BOOKS - NAVNEET PUBLICATION

OPERATION ON RATIONAL NUMBERS

Question Bank

1. Carry out the following additions of rational numbers.

$$\frac{5}{36} + \frac{6}{42}$$



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2. Carry out the following additions of rational numbers.

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



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3. Carry out the following additions of rational numbers.

$$\frac{11}{17} + \frac{13}{19}$$



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4. Carry out the following additions of rational numbers.

$$2\frac{3}{11} + 1\frac{3}{77}$$



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5. Carry out the following subtraction involving rational numbers:

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



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6. Carry out the following subtraction involving rational numbers:

$$\frac{13}{36} - \frac{2}{40}$$



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7. Carry out the following subtraction involving rational numbers:

$$1\frac{2}{3} - 3\frac{5}{6}$$



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8. Carry out the following subtraction involving rational numbers:

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



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9. Multiply the following rational numbers:

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



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10. Multiply the following rational numbers:

$$\frac{12}{5} \times \frac{4}{15}$$



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11. Multiply the following rational numbers:

$$\frac{-8}{9} \times \frac{3}{4}$$



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12. Multiply the following rational numbers:

$$\frac{0}{63} \times 4$$



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13. Write the multiplicative inverse:

$$\frac{2}{5}$$



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14. Write the multiplicative inverse:

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



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15. Write the multiplicative inverse:

$$-\frac{17}{39}$$



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16. Write the multiplicative inverse:

7



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17. Write the multiplicative inverse:

$$-7\frac{1}{3} = -\frac{22}{3}$$



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18. Carry out the division of rational numbers:

$$\frac{40}{12} \div \frac{10}{4}$$



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19. Carry out the division of rational numbers:

$$\frac{-10}{11} \div \frac{-11}{10}$$



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20. Carry out the division of rational numbers:

$$\frac{-7}{8} \div \frac{-3}{6}$$



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21. Carry out the division of rational numbers:

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



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22. Carry out the division of rational numbers:

$$2\frac{1}{5} \div 5\frac{3}{6}$$



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23. Carry out the division of rational numbers:

$$\frac{-5}{13} \div \frac{7}{26}$$



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24. Carry out the division of rational numbers:

$$\frac{9}{11} \div (-8)$$



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25. Carry out the division of rational numbers:

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



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26. Write three rational numbers that lie between the two given numbers:

$$2/7, 6/7$$



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27. Write three rational numbers that lie between the two given numbers:

$$4/5, 2/3$$



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28. Write three rational numbers that lie between the two given numbers:

$-2/3, 4/5$



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29. Write three rational numbers that lie between the two given numbers:

$-7/9, -5/9$



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30. Write three rational numbers that lie between the two given numbers:

$$-3/4, 5/4$$



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31. Write three rational numbers that lie between the two given numbers:

$$-7/8, -5/3$$



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32. Write three rational numbers that lie between the two given numbers:

$5/7, 11/7$



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33. Write three rational numbers that lie between the two given numbers:

$0, -3/4$



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34. Write the rational number $13/8$ in decimal form.



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35. Write the rational number $11/3$ in decimal form.



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36. Write the rational number $15/11$ in decimal form



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37. Write the following rational numbers in decimal form.

$13/4$



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38. Write the following rational numbers in decimal form.

$$-7/8$$



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39. Write the following rational numbers in decimal form.

$$7\frac{3}{5}$$



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40. Write the following rational numbers in decimal form.

$$\frac{5}{12}$$



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41. Write the following rational numbers in decimal form.

$$\frac{22}{7}$$



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42. Write the following rational numbers in decimal form.

$$\frac{4}{3}$$



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43. Write the following rational numbers in decimal form.

$$\frac{7}{9}$$



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44. Simplify the following expressions:

$$50 \times 5 \div 2 + 24$$



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45. Simplify the following expressions:

$$(13 \times 4) \div 2 - 26$$



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46. Simplify the following expressions:

$$140 \div [(-11) \times (-3) - (-42) \div 14 - 1]$$



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47. Simplify the following expressions:

$$\{(220 - 140) + [10 \times 9 + (-2 \times 5)]\}$$



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48. Simplify the following expressions:

$$\frac{3}{5} + \frac{3}{8} \div \frac{6}{4}$$



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49. What is the smallest rational number?



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50. What is the additive inverse of $-\frac{7}{11}$?



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51. What is the multiplicative inverse of $-\frac{3}{8}$?



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52. $12 \times 14 \div 7 = ?$



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