MATHS

BOOKS - MBD

RATIONAL NUMBERS

Example

1. Using appropriate properties find :

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

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2. Using appropriate properties find :

$$\frac{2}{5} \times \left(-\frac{3}{7} \right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$$

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3. Write the additive inverse of each of the following :

2/8

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4. Write the additive inverse of each of the following :

-5/9

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5. Write the additive inverse of each of the following . $\frac{-6}{-5}$

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6. Write the additive inverse of each of the following . $\frac{2}{-9}$

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7. Write the additive inverse of each of the following :

19/-6

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8. Verify that – (– x) = x for. $x = \frac{11}{15}$

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9. Verify that : -(-x) = x for :

$x = -\frac{13}{17}$

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10. Find the multiplicative inverse of the following : -13

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11. Find the multiplicative inverse of the following : $\frac{-13}{19}$

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12. Find the multiplicative inverse of the following : $\frac{1}{5}$

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13. Find the multiplicative inverse of the following : $\frac{-5}{8} \times \frac{-3}{7}$

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14. Find the multiplicative inverse of the following : $-1 \times \frac{-2}{5}$

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15. Find the multiplicative inverse of the following : -1

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16. Name the property under multiplication used in each of the following.

$$\frac{-4}{5} \times 1 = 1 \times \frac{-4}{5} = -\frac{4}{5}$$

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17. Name the property under multiplication used in each of the following.

$$-\frac{13}{17} \times \frac{-2}{7} = \frac{-2}{7} \times \frac{-13}{17}$$

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18. Name the property under multiplication used in each of the following.

$$\frac{-19}{29} \cdot \frac{29}{-19} = 1$$

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19. Multiply $\frac{6}{13}$ by the reciprocal of $\frac{-7}{16}$

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20. Tell what property allows you to compute $\frac{1}{3} \times \left(6 \times \frac{4}{3}\right)$ as $\left(\frac{1}{3} \times 6\right) \times \frac{4}{3}$

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21. Is $\frac{8}{9}$ the multiplicative inverse of $-1\frac{1}{8}$?

Why or why not?

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22. Is 0.3 the multiplicative inverse of $3\frac{1}{3}$? Why or why not?

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23. The rational number that does not have a reciprocal.

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24. The rational numbers that are equal to their reciprocals.

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25. The rational number that is equal to its negative.

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26. Fill in the blanks : Zero has _____ reciprocal.

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27. Fill in the blanks :

The numbers ..... And ..... Are their own reciprocals.

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28. Fill in the blanks :

The reciprocal of -5 is ..... .

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29. Fill in the blanks :

Reciprocal of 1/x, where x $\neq 0$ is ..... .

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30. Fill in the blanks :

The product of two rational numbers is always

a ..... .

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31. Fill in the blanks :

The reciprocal of a positive rational number is

..... .

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32. Find using distributivty :

$$\left(-\frac{3}{4}\times\frac{2}{3}\right)+\left(-\frac{3}{4}\times-\frac{5}{6}\right)$$

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33. Find using distributivty :

$$\left(-\frac{2}{3}\times\frac{5}{6}\right)+\left(-\frac{2}{3}\times\frac{7}{2}\right)$$

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34. Using Appropriate properties find :

$$\frac{2}{3}\times-\frac{3}{7}-\frac{1}{14}-\frac{3}{7}\times\frac{3}{5}.$$

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35. Find the additive inverse of each of the following :

1/3

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36. Find the additive inverse of each of the following :

$\frac{23}{9}$

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37. Find the additive inverse of each of the following :

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

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38. Find the additive inverse of each of the following :

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

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39. Verify that :-(-x) = x for

$$x = \frac{13}{17}$$

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40. Verify that :-(-x) = x for

$$x = -\frac{21}{31}$$

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41. Find the multiplicative inverse of the following :

12

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42. Find the multiplicative inverse of the following :

-8

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43. Find the multiplicative inverse of the following :

5/16

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44. Find the multiplicative inverse of the following :

-14/17

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45. Name the property under multiplication used in each of the following :

(-3/16 x 8/15) = (8/15 x -3/16)

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46. Name the property under multiplication used in each of the following :

$$\frac{2}{3}x\left(\frac{6}{7}\times-\frac{14}{15}\right)=\left(\frac{2}{3}\times\frac{6}{7}\right)\times-\frac{14}{15}$$

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47. Name the property under multiplication used in each of the following :

5/6x(-4/5 + +-7/10)=(5/6 x -4/5) +(5/6 x -7/10)`

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48. Multiply -7/19 by the reciprocal of 5/13.

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49. Tell what property allow you to compute :

$$\frac{3}{4} \times \left(8 \times \frac{2}{5}\right) as \left(\frac{3}{4} \times 8\right) \times \frac{2}{5}$$

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50. Represent these numbers on the number line. $\frac{7}{4}$

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51. Represent these numbers on the number line. $\frac{-5}{6}$

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52. Represent $\frac{-2}{11}, \frac{-5}{11}, \frac{-9}{11}$ on the number line.

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53. Write five rational numbers which are smaller than 2.

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54. Find ten rational numbers between $\frac{-2}{5}$ and $\frac{1}{2}$.

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55. Find five rational numbers between $\frac{2}{3}$ and $\frac{4}{5}$

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56. Find five rational numbers between $\frac{-3}{2}$ and $\frac{5}{3}$

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57. Find five rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$

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58. Write five rational numbers greater than -2.

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59. Find ten rational numbers between $\frac{3}{5}$ and $\frac{3}{4}$

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60. Represent the following numbers on the number line :

-1/3

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61. Represent the following numbers on the number line :

2/7

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62. Represent the following numbers on the number line :

7/2

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63. Represent the following numbers on the number line :

-3/7

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64. Find a rational number lying between 1/3 and 1/2.

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65. Find a rational number lying betewen 3 and 4.

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66. Find three rational umber lying between 2/3 and 3/4

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67. Find any ten rational numbers between $\frac{-5}{6}$ and $\frac{5}{8}$.

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68. Find three rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$.

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69. Find three rational numbers between -2 and 0.

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70. Find two rational numbers between 1/5 and 1/2.

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71. Find seven rational numbers between 1/3 and 1/2.

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72. The additive inverse of 2/8 is :

A. $-\frac{2}{8}$

B. $-\frac{2}{-8}$

C. $\frac{8}{2}$

D. $-\frac{8}{2}$

Answer:

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73. Find the multiplicative inverse of the following : -13

A. 13

B. $\frac{1}{13}$

C. $-\frac{1}{13}$

D. $-\frac{13}{1}$.

Answer:

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74. Multiply $\frac{6}{13}$ by the reciprocal of $\frac{-7}{16}$

A. $\frac{6}{16}$

B. $-\frac{6}{7}$

C. $\frac{91}{96}$

D. $-\frac{96}{91}$

Answer:

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75. The reciprocal of 8/21 is :

A. $-\frac{8}{21}$

B. $\frac{21}{8}$

C. $-\frac{21}{8}$

D. 1

Answer:

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76. The reciprocal of -5 is ..... . The blank space is filled by :

A. $\frac{1}{5}$

B. 5

C. $-\frac{1}{5}$

D. 1

Answer:

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77. Fill in the blanks : Reciprocal of $\frac{1}{x}$, where $x \neq 0$ is _____.

A. x

B. $-x$

C. 1

D. $-\frac{1}{x}$

Answer:

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78. The reciprocal of a postitive rational number is .... .The blank space is filled by :

A. Negative

B. Zero

C. 1

D. Positive.

Answer:

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79. A rational number between 1 and 2 is :

A. $\frac{1}{2}$

B. $\frac{2}{3}$

C. $\frac{3}{2}$

D. $\frac{1}{3}$

Answer:

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80. The rational number between 1/4 and 1/2 is

:

A. $\frac{3}{2}$

B. $\frac{3}{4}$

C. $\frac{3}{8}$

D. $\frac{1}{8}$.

Answer:

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81. A rational number between 3/8 and 1/2 will be :

A. $\frac{5}{8}$

B. $\frac{7}{16}$

C. $\frac{5}{16}$

D. $\frac{3}{16}$

Answer:

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