



MATHS

NCERT - NCERT MATHEMATICS(TAMIL ENGLISH)

REAL NUMBERS

Example

1. Represent $\frac{5}{3}$ and $-\frac{5}{3}$ on the number line.



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2. Are the following statements True? Give reasons for your answers with an example.

Every rational number is an integer.



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3. Are the following statements True? Give reasons for your answers with an example.

Every integer is a rational number



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4. Are the following statements True? Give reasons for your answers with an example.

Zero is a rational number



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5. Find two rational numbers between 3 and 4 by mean method.



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6. Express $\frac{7}{16}$, $\frac{10}{7}$ and $\frac{2}{3}$ in decimal form.



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7. Express 3.28 in the form of $\frac{p}{q}$ (where p and q are integers, $q \neq 0$).



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8. Express $1.\overline{62}$ in $\frac{p}{q}$ form where $q \neq 0$, p, q are integers.



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9. Locate $\sqrt{2}$ on number line



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10. Locate $\sqrt{3}$ on number line



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11. Find any two irrational numbers between

$\frac{1}{5}$ and $\frac{2}{7}$.



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12. Find an irrational number between 3 and 4.



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13. Examine, whether the following numbers are rational or irrational :

$$(3 + \sqrt{3}) + (3 - \sqrt{3})$$



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14. Examine, whether the following numbers are rational or irrational :

$$(3 + \sqrt{3}) + (3 - \sqrt{3})$$



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15. Examine, whether the following numbers are rational or irrational :

$$\frac{10}{10\sqrt{5}}$$



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16. Examine, whether the following numbers are rational or irrational :

$$(\sqrt{2} + 2)^5$$



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17. Visualise the representation of $3.5\bar{8}$ on the number line through successive magnification upto 4 decimal places.



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18. Check whether (i) $5\sqrt{2}$ (ii) $\frac{5}{\sqrt{2}}$ (iii) $21 + \sqrt{3}$

(iv) $\pi + 3$ are irrational numbers or not?



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19. Subtract $5\sqrt{3} + 7\sqrt{5}$ from $3\sqrt{5} - 7\sqrt{3}$



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20. Multiply $6\sqrt{3}$ with $13\sqrt{3}$



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21. Simplify the following expressions :

$$(3 + \sqrt{3})(2 + \sqrt{2})$$



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22. Simplify the following expressions :

$$(2 + \sqrt{3})(2 - \sqrt{3})$$



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23. Simplify the following expressions :

$$(\sqrt{5} + \sqrt{2})^2$$



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24. Simplify the following expressions :

$$(\sqrt{5} - \sqrt{2})(\sqrt{5} + \sqrt{2})$$



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25. Find the square root of $5 + 2\sqrt{6}$



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26. Rationalise the denominator of $\frac{1}{4 + \sqrt{5}}$



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27. If $x = 7 + 4\sqrt{3}$ then find the value of

$$x + \frac{1}{x}$$



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28. Simplify $\frac{1}{7 + 4\sqrt{3}} + \frac{1}{2 + \sqrt{5}}$



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29. Simplify

$$2^{\frac{2}{3}} \cdot 2^{\frac{1}{3}}$$



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30. Simplify

$$\left(5^{\frac{1}{7}}\right)^4$$



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31. Simplify

$$\frac{3^{\frac{1}{5}}}{3^{\frac{1}{3}}}$$



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32. Simplify

$$7^{\frac{1}{17}} \cdot 11^{\frac{1}{17}}$$



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33. Find any two rational numbers between $\frac{1}{2}$ and $\frac{2}{3}$.



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34. Represent the following as decimal form

$$\frac{-4}{11}$$



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35. Represent the following as decimal form

$$\frac{11}{75}$$

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36. Express the rational number $\frac{1}{27}$ in recurring decimal form by using the recurring decimal expansion of $\frac{1}{3}$. Hence write $\frac{59}{27}$ in recurring decimal form.

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37. Convert the following decimal numbers in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$:

0.35



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38. Convert the following decimal numbers in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$:

2.176



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39. Convert the following decimal numbers in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$:

-0.0028



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40. Convert the following decimal numbers in the form of $\frac{p}{q}$ ($p, q \in \mathbb{Z}$ and $q \neq 0$).

$0.\bar{3}$



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41. Convert the following decimal numbers in the form of $\frac{p}{q}$ ($p, q \in \mathbb{Z}$ and $q \neq 0$).

$$2. \overline{124}$$



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42. Convert the following decimal numbers in the form of $\frac{p}{q}$ ($p, q \in \mathbb{Z}$ and $q \neq 0$).

$$0. \overline{45}$$



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43. Convert the following decimal numbers in the form of $\frac{p}{q}$ ($p, q \in Z$ and $q \neq 0$).

$0.5\overline{68}$



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44. Without actual division, classify the decimal expansion of the following numbers as terminating or non – terminating and

recurring.

$$\frac{13}{64}$$



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45. Without actual division, classify the decimal expansion of the following numbers as terminating or non – terminating and recurring.

$$\frac{-71}{125}$$



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46. Without actual division, classify the decimal expansion of the following numbers as terminating or non – terminating and recurring.

$$\frac{43}{375}$$



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47. Without actual division, classify the decimal expansion of the following numbers as terminating or non – terminating and

recurring.

$$\frac{31}{400}$$



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48. Verify that $1 = 0.\bar{9}$



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49. Classify the numbers as rational or irrational:

$$\sqrt{10}$$



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50. Classify the numbers as rational or irrational:

$$\sqrt{49}$$



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51. Classify the numbers as rational or irrational:

$$\sqrt{0.025}$$





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52. Classify the numbers as rational or irrational:

$(0.\overline{76})$



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53. Classify the numbers as rational or irrational:

2.505500555...



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54. Classify the numbers as rational or irrational:

$$\frac{\sqrt{2}}{2}$$



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55. Find any 3 irrational numbers between 0.12 and 0.13 .



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56. Give any two rational numbers lying between $0.5151151115\dots$ and $0.5353353335\dots$

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57. Find whether x and y are rational or irrational in the following.

$$a = 2 + \sqrt{3}, b = 2 - \sqrt{3}, x = a + b, y = a - b$$

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58. Find whether x and y are rational or irrational in the following.

$$a = \sqrt{2} + 7, b = \sqrt{2} - 7, x = a + b, y = a - b$$



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59. Find whether x and y are rational or irrational in the following.

$$a = \sqrt{75}, b = \sqrt{3}, x = ab, y = \frac{a}{b}$$



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60. Find whether x and y are rational or irrational in the following.

$$a = \sqrt{18}, b = \sqrt{3}, x = ab, y = \frac{a}{b}$$



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61. Represent $3.\overline{45}$ on the number line upto 4 decimal places



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62. Express the following in the form 2^n :

8



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63. Express the following in the form 2^n :

32



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64. Express the following in the form 2^n :

$$\frac{1}{4}$$



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65. Express the following in the form 2^n :

$$\sqrt{2}$$



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66. Express the following in the form 2^n :

$$\sqrt{8}$$



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67. Find the value of

$$81^{\frac{5}{4}}$$



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68. Find the value of

$$64^{\frac{-2}{3}}$$



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69. Can you reduce the following numbers to surds of same order :

$$\sqrt{3}$$



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70. Can you reduce the following numbers to surds of same order :

$$\sqrt[4]{3}$$



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71. Can you reduce the following numbers to surds of same order :

$$\sqrt[3]{3}$$



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72. Express the surds in the simplest form:

$$\sqrt{8}$$



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73. Express the surds in the simplest form:

$$\sqrt[3]{192}$$



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74. Show that $\sqrt[3]{7} > \sqrt[4]{5}$





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75. Arrange in ascending order: $\sqrt[3]{2}$, $\sqrt[2]{4}$, $\sqrt[4]{3}$



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76. Express each of the following surds in its simplest form (i) $\sqrt[3]{108}$ (ii) $\sqrt[3]{(1024)^{-2}}$ and find its order, radicand and coefficient.



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77. Add $3\sqrt{7}$ and $5\sqrt{7}$. Check whether the sum is rational or irrational.



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78. Subtract $4\sqrt{5}$ from $7\sqrt{5}$. Is the answer rational or irrational?



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79. Simplify the following:

$$2\sqrt[3]{40} + 3\sqrt[3]{625} - 4\sqrt[3]{320}$$



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80. Multiply $\sqrt[3]{40}$ and $\sqrt[3]{16}$.



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81. Compute and give the answer in the simplest form: $2\sqrt{72} \times 5\sqrt{32} \times 3\sqrt{50}$



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82. Divide $\sqrt[9]{8}$ by $\sqrt[6]{6}$.



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83. Rationalise the denominator of

$$\frac{7}{\sqrt{14}}$$



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84. Rationalise the denominator of

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



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85. Express in scientific notation

9768854



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86. Express in scientific notation

0.04567891



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87. Express in scientific notation

72006865.48



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88. Write the following numbers in decimal form:

6.34×10^4



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89. Write the following numbers in decimal form:

$$2.00367 \times 10^{-5}$$



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90. The mass of the Earth is 5.97×10^{24} kg and that of the Moon is 0.073×10^{24} kg. What is their total mass?



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91. Write the following in scientific notation :

$$(50000000)^4$$



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92. Write the following in scientific notation :

$$(0.00000005)^3$$



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93. Write the following in scientific notation :

$$(300000)^3 \times (2000)^4$$



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94. Write the following in scientific notation :

$$(4000000)^3 \div (0.00002)^4$$



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Do This

1. Represent $\frac{-3}{4}$ on the number line.



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2. Right 0, 7, 10, -4 in $\frac{p}{q}$ form.



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3. Find any five rational numbers between 2 and 3 using mean method.



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4. Find any 10 rational numbers between

$$-\frac{3}{11} \text{ and } \frac{8}{11}.$$



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5. Express (i) $\frac{1}{17}$ (ii) $\frac{1}{19}$ in decimal form.



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6. Find rationalising factors of the denominators of $\frac{1}{2\sqrt{3}}$



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7. Find rationalising factors of the denominators of $\frac{3}{\sqrt{5}}$



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8. Find rationalising factors of the denominators of $\frac{1}{\sqrt{8}}$



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9. Simplify :

$$(16)^{\frac{1}{2}}$$



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10. Simplify :

$$(128)^{\frac{1}{7}}$$



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11. Simplify :

$$(343)^{\frac{1}{5}}$$



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12. Write the following surds in exponential form

$$\sqrt{2}$$



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13. Write the following surds in exponential form

$$\sqrt[3]{9}$$



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14. Write the following surds in exponential form

$$\sqrt[5]{20}$$



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15. Write the following surds in exponential form

$$\sqrt[17]{19}$$



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16. Write the surds in radical form:

$$5^{\frac{1}{7}}$$



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17. Write the surds in radical form:

$$17^{\frac{1}{6}}$$



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18. Write the surds in radical form:

$$5^{\frac{1}{7}}$$



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19. Write the surds in radical form:

$$142^{\frac{1}{2}}$$



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Try These

1. Find the decimal values of the following:

$$\frac{1}{2}$$



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2. Find the decimal values of the following:

$$\frac{1}{2^2}$$



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3. Find the decimal values of the following:

$$\frac{1}{5}$$



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4. Find the decimal values of the following:

$$\frac{1}{5 \times 2}$$



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5. Find the decimal values of the following:

$$\frac{3}{10}$$



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6. Find the decimal values of the following:

$$\frac{27}{25}$$



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7. Find the decimal values of the following:

$$\frac{1}{3}$$



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8. Find the decimal values of the following:

$$\frac{7}{6}$$



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9. Find the decimal values of the following:

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



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10. Find the decimal values of the following:

$$\frac{1}{7}$$



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11. Find the value of $\sqrt{3}$ upto six decimals.





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Think Discuss And Write

1. Kurthi said $\sqrt{2}$ can be written $\frac{\sqrt{2}}{1}$ which is in $\frac{p}{q}$ form. So $\sqrt{2}$ is a rational number. Do you agree with her argument?



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Exercise 1 1

1. (a) Write any three rational numbers



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2. (b) Explain rational number in your own words.



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3. Give one example each to the following statements.

i. A number which is rational but not an integer



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4. Give one example each to the following statements.

ii. A whole number which is not a natural number



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5. Give one example each to the following statements.

iii. An integer which is not a whole number



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6. Give one example each to the following statements.

iv. A number which is natural number, whole number, integer and rational number.



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7. Give one example each to the following statements.

v. A number which is an integer but not a natural number.



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8. Find five rational numbers between 1 and 2.



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9. Insert three rational numbers between

$$\frac{3}{5} \text{ and } \frac{2}{3}$$



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10. Represent $\frac{8}{5}$ and $\frac{-8}{5}$ on the number line



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11. Express the following rational numbers in decimal form.

$$\frac{242}{1000}$$



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12. Express the following rational numbers in decimal form.

$$\frac{354}{500}$$



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13. Express the following rational numbers in decimal form.

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



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14. Express the following rational numbers in decimal form.

$$\frac{115}{4}$$



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15. Express the following rational numbers in decimal form.

$$\frac{2}{3}$$



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16. Express the following rational numbers in decimal form.

$$-\frac{25}{36}$$



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17. Express the following rational numbers in decimal form.

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



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18. Express the following rational numbers in decimal form.

$$\frac{11}{9}$$



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19. Express each of the following decimals in

$\frac{p}{q}$ form where $q \neq 0$ and p, q are integers

0.36



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20. Express each of the following decimals in

$\frac{p}{q}$ form where $q \neq 0$ and p, q are integers

15.4



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21. Express each of the following decimals in

$\frac{p}{q}$ form where $q \neq 0$ and p, q are integers

10.25



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22. Express each of the following decimals in

$\frac{p}{q}$ form where $q \neq 0$ and p, q are integers

3.25



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23. Express each of the following decimal

numbers in $\frac{p}{q}$ form

$0.\bar{5}$



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24. Express each of the following decimal numbers in $\frac{p}{q}$ form

$$3.\bar{8}$$



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25. Express each of the following decimal numbers in $\frac{p}{q}$ form

$$0.\overline{36}$$



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26. Express each of the following decimal numbers in $\frac{p}{q}$ form

3.1277



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27. Without actually dividing find which of the following are terminating decimals.

$$\frac{3}{25}$$



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28. Without actually dividing find which of the following are terminating decimals.

$$\frac{11}{18}$$



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29. Without actually dividing find which of the following are terminating decimals.

$$\frac{13}{20}$$



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30. Without actually dividing find which of the following are terminating decimals.

$$\frac{41}{42}$$



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Exercise 1 2

1. Classify the following numbers as rational or irrational.

$$\sqrt{27}$$



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2. Classify the following numbers as rational or irrational.

$$\sqrt{441}$$



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3. Classify the following numbers as rational or irrational.

30.2323342345...



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4. Classify the following numbers as rational or irrational.

7.484848...



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5. Classify the following numbers as rational or irrational.

11.21132435465



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6. Classify the following numbers as rational or irrational.

0.3030030003...



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7. Give four examples for rational and irrational numbers?



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8. Find an irrational number between $\frac{5}{7}$ and $\frac{7}{9}$. How many more there may be?



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9. Find two irrational numbers between 0.7 and 0.77



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10. Find the value of $\sqrt{5}$ upto 3 decimal places.



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11. Find the value of $\sqrt{7}$ up to six decimal places by long division method.



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12. Locate $\sqrt{10}$ on the number line.



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13. Find at least two irrational numbers between 2 and 3.



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14. State whether the following statements are true or false. Justify your answers.

(i) Every irrational number is a real number.



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15. State whether the following statements are true or false. Justify your answers.

(ii) Every rational number is a real number.



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16. State whether the following statements are true or false. Justify your answers.

(iii) Every real number need not be a rational number



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17. State whether the following statements are true or false. Justify your answers.

(iv) n is not irrational if n is a perfect square.



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18. State whether the following statements are true or false. Justify your answers.

(v) \sqrt{n} is irrational if n is not a perfect square.



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19. State whether the following statements are true or false. Justify your answers.

(vi) All real numbers are irrational.



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Exercise 13

1. Visualize $4.\overline{26}$ on the number line upto 4 decimal places.



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Exercise 1 4

1. Simplify the following expressions.

$$(5 + \sqrt{7})(2 + \sqrt{5})$$



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2. Simplify the following expressions.

$$(5 + \sqrt{5})(5 - \sqrt{3})$$



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3. Simplify the following expressions.

$$(\sqrt{3} + \sqrt{7})^2$$



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4. Simplify the following expressions.

$$(\sqrt{11} + \sqrt{7})(\sqrt{11} + \sqrt{7})$$



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5. Classify the following numbers as rational or irrational.

$$5 - \sqrt{3}$$



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6. Classify the following numbers as rational or irrational.

$$\sqrt{3} + \sqrt{2}$$



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7. Classify the following numbers as rational or irrational.

$$(\sqrt{2} - 2)^2$$



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8. Classify the following numbers as rational or irrational.

$$\frac{2\sqrt{7}}{7\sqrt{7}}$$



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9. Classify the following numbers as rational or irrational.

$$2\pi$$



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10. Classify the following numbers as rational or irrational.

$$\frac{1}{\sqrt{3}}$$



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11. Classify the following numbers as rational or irrational.

$$(2 + \sqrt{2})(2 - \sqrt{2})$$



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12. In the following equations, find whether variables x , y , z etc. represent rational or irrational numbers

$$x^2 = 7$$



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13. In the following equations, find whether variables x , y , z etc. represent rational or irrational numbers

$$y^2 = 16$$



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14. In the following equations, find whether variables x , y , z etc. represent rational or irrational numbers

$$z^2 = 0.02$$



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15. In the following equations, find whether variables x , y , z etc. represent rational or irrational numbers

$$u^2 = \frac{17}{4}$$



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16. In the following equations, find whether variables x , y , z etc. represent rational or

irrational numbers

$$w^2 = 27$$



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17. In the following equations, find whether variables x , y , z etc. represent rational or irrational numbers

$$t^4 = 256$$



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18. Every surd is an irrational, but every irrational need not be a surd. Justify your answer.



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19. Rationalise the denominators of the following:

$$\frac{1}{3 + \sqrt{2}}$$



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20. Rationalise the denominators of the following:

$$\frac{1}{\sqrt{7} - \sqrt{6}}$$



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21. Rationalise the denominators of the following:

$$\frac{1}{\sqrt{7}}$$



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22. Rationalise the denominators of the following:

$$\frac{\sqrt{6}}{\sqrt{3} - \sqrt{2}}$$



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23. Simplify each of the following by rationalising the denominator:

$$\frac{6 - 4\sqrt{2}}{6 + 4\sqrt{2}}$$



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24. Simplify each of the following by rationalising the denominator:

$$\frac{\sqrt{7} - \sqrt{5}}{\sqrt{7} + \sqrt{5}}$$



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25. Simplify each of the following by rationalising the denominator:

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



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26. Simplify each of the following by rationalising the denominator:

$$\frac{3\sqrt{5} - \sqrt{7}}{3\sqrt{3} + \sqrt{2}}$$



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27. Find the value of $\frac{\sqrt{10} - \sqrt{5}}{2\sqrt{2}}$ upto three decimal places. (take $\sqrt{2} = 1.414$ and $\sqrt{5} = 2.236$)



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28. Find:

$$64^{\frac{1}{6}}$$



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29. Find:

$$32^{\frac{1}{5}}$$



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30. Find:

$$625^{\frac{1}{4}}$$



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31. Find:

$$16^{\frac{3}{2}}$$



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32. Find:

$$243^{\frac{2}{5}}$$



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33. Find:

$$(46656)^{\frac{-1}{6}}$$



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34. Simplify : $\sqrt[4]{81} - 8\sqrt[3]{343} + 15\sqrt[5]{32} + \sqrt{225}$



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35. If 'a' and 'b' are rational numbers, find the value of a and b in each of the following

equations.

$$\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} = a + b\sqrt{6}$$



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36. If 'a' and 'b' are rational numbers, find the value of a and b in each of the following equations.

$$\frac{\sqrt{5} + \sqrt{3}}{2\sqrt{5} - 3\sqrt{3}} = a - b\sqrt{15}$$



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37. Find the square root of $11 + 2\sqrt{30}$



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