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Maths rs aggarwal class 9 solutions chapter 1 number system

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Similarly, we can find other four rational numbers between 1 and 2. [NCERT] Solution: One rational number between 3 and 4 is $\frac{3+4}{2} = \frac{7}{2}$. Question 4. Find five rational numbers between $\frac{3}{5}$ and $\frac{4}{5}$. Solution: Question 5. Are the following statements true or false? Give reason for your answer: (i) Every whole number is a natural number. [NCERT] (ii) Every integer is a rational number. (iii) Every rational number is an integer. (iv) Every natural number is a whole number. (v) Every integer is a whole number. (vi) Every rational number is a whole number. Solution: (i) False, as 0 is not a natural number. (ii) True. (iii) False, as $\frac{1}{2}$, $\frac{1}{3}$ etc. are not integers. (iv) True. (v) False, ∵ negative natural numbers are not whole numbers. (vi) False, ∵ proper fraction are not whole numbers RD Sharma Class 9 Chapter 1 Number System Ex 1.2 Question 1. Express the following rational numbers as decimals: Solution: Question 2. Solution: Question 3. Look at several examples of rational numbers in the form $\frac{p}{q}$ ($q \neq 0$), where p and q are integers with no common factors other than 1 and having terminating decimal representations. Can you guess what property q must satisfy? Solution: The property is if the denominators have factors 2 or 5 or both, the decimal representation will be terminating e.g. RD Sharma Class 9 Solutions Chapter 1 Number System Ex 1.3 Question 1. Express each of the following decimals in the form $\frac{p}{q}$ where p and q are integers and $q \neq 0$ is called an irrational number. Question 2. Explain, how irrational numbers differ from rational numbers? Solution: A rational number can be expressed in either terminating decimal or non-terminating recurring decimals but an irrational number is expressed in non-terminating non-recurring decimals. Question 3. Examine, whether the following numbers are rational or irrational: Solution: Question 4. Identify the following as rational or irrational numbers. Give the decimal representation of rational numbers: Solution: Question 5. In the following equation, find which variables x, y, z etc. represent rational or irrational numbers: Solution: Question 6. Given two rational numbers lying between 0.232323232323232... and 0.212112111211121... will be 0.232 and 0.212 Question 7. Give two rational numbers lying between 0.51515111511151... and 0.535353333333... Solution: Two rational numbers lying between 0.51515111511151... and 0.53535333333333... will be 0.515, 0.535 Question 8. Find one irrational number between 0.2101 and 0.2222... = 0. $\overline{2}$. Solution: One irrational number lying between 0.2101 and 0.2222... = 0. $\overline{2}$ will be 2.2010010001... Question 9. Find a rational number and also an irrational number lying between the numbers, 0.3030030003... and 0.3010010001... Solution: Between two numbers 0.3030030003... and 0.3010010001... a rational will be 0.301 and irrational number will be 0.3020020002... Question 10. Find three different irrational numbers between the rational numbers $\frac{5}{7}$ and $\frac{9}{11}$. [NCERT] Solution: Question 11. Give an example of each, of two irrational numbers whose: (i) difference is a rational number. (ii) difference is an irrational number. (iii) sum is a rational number. (iv) sum is an irrational number. (v) product is a rational number. (vi) product is an irrational number. (vii) quotient is a rational number. (viii) quotient is an irrational number. Solution: (i) Two numbers whose difference is also a rational number, e.g. $\sqrt{2} - \sqrt{2}$, $\sqrt{2} - \sqrt{2}$ which are irrational numbers. ∴ Difference = $\sqrt{2} - \sqrt{2} = 0$ which is also a rational number. (ii) Two numbers whose difference is an irrational number. e.g. $\sqrt{3} - \sqrt{2}$ and $\sqrt{2} - \sqrt{3}$ which are irrational numbers. Now difference = $\sqrt{3} - \sqrt{2}$ which is also an irrational number. (iii) Let two irrational numbers be $\sqrt{3}$ and $-\sqrt{2}$ which are irrational numbers. Now sum = $\sqrt{3} - \sqrt{2}$ which is an irrational number. (iv) Let two numbers be $\sqrt{3}$ and $-\sqrt{2}$ which are irrational numbers. Now product = $\sqrt{3} - \sqrt{2}$ which is an irrational number. (v) Let numbers be $\sqrt{3}$ and $-\sqrt{2}$ which are irrational numbers. Now product = $\sqrt{3} - \sqrt{2}$ which is an irrational number. (vi) Let numbers be $\sqrt{3}$ and $-\sqrt{2}$ which are irrational numbers. Now product = $\sqrt{3} - \sqrt{2}$ which is an irrational number. (vii) Let numbers be 6 $\sqrt{2}$ and 2 $\sqrt{2}$ which are irrational numbers. Quotient = $\frac{6\sqrt{2}}{2\sqrt{2}} = 3$ which is a rational number. (viii) Let numbers be $\sqrt{3}$ and $\sqrt{5}$ which are irrational numbers. Now quotient = $\frac{\sqrt{3}}{\sqrt{5}}$ which is an irrational number. Question 12. Find two irrational numbers between 0.5 and 0.55. Solution: Two irrational numbers between 0.5 and 0.55 will be 0.51010010001... and 0.520020002... Question 13. Find two irrational numbers lying between 0.1 and 0.12. Solution: Two irrational numbers lying between 0.1 and 0.12 will be 0.1010010001... and 0.1020020002... Question 14. Prove that $\sqrt{3} + \sqrt{5}$ is an irrational number. Solution: RD Sharma Class 9 PDF Chapter 1 Number System Ex 1.5 Question 1. Complete the following sentences: (i) Every point on the number line corresponds to a ... number which many be either ... or (ii) The decimal form of an irrational number is neither ... nor ... (iii) The decimal representation of a rational number is either ... or ... (iv) Every real number is either ... number or ... number. Solution: (i) Every point on the number line corresponds to a real number which many be either rational or irrational. (ii) The decimal form of an irrational number is neither terminating nor repeating. (iii) The decimal representation of a rational number is either terminating or nonterminating, recurring. (iv) Every real number is either rational number or an irrational number. Question 2. Find whether the following statements are true or false: (i) Every real number is either rational or irrational. (ii) π is an irrational number. (iii) Irrational numbers cannot be represented by points on the number line. Solution: (i) True. (Value of $\pi = 3.14$) (ii) False ∵ we can represent irrational number also. Question 3. Represent $\sqrt{6}$, $\sqrt{7}$, $\sqrt{8}$ on the number line. Solution: Question 4. Represent $\sqrt{3.5}$, $\sqrt{9.4}$ and $\sqrt{10.5}$ on the real number line. Solution: Number System Class 9 RD Sharma Class 9 Solutions Ex 1.6 Question 1. Visualise 2.665 on the number line, using successive magnification. Solution: 2.665 ∵ It lies between 2 and 3 Question 2. Visualise the representation of 5. $\overline{3}$ on the number line upto 5 decimal places, that is upto 5.37777. [NCERT] Solution: 5.37777. RD Sharma Class 9 Solution Chapter 1 Number System MCQS Question 1. Visualise 2.665 on the number line, using successive magnification. Solution: 2.665 ∵ It lies between 2 and 3 Question 2. Visualise the representation of 5. $\overline{3}$ on the number line upto 5 decimal places, that is upto 5.37777. [NCERT] Solution: 5.37777. Class 9 RD Sharma Solutions Chapter 1 Number System Ex 1.6 the correct alternative in each of the following: Question 1. Which one of the following is a correct statement? (a) Decimal expansion of a rational number is terminating (b) Decimal expansion of a rational number is non-terminating (c) Decimal expansion of an irrational number is terminating (d) Decimal expansion of an irrational number is non-terminating and non-repeating Solution: Decimal expansion of a rational number is non-terminating and non-repeating. (d) Question 2. Which one of the following statements is true? (a) The sum of two irrational numbers is always an irrational number (b) The sum of two irrational numbers is always a rational number (c) The sum of two irrational numbers may be a rational number or an irrational number (d) The sum of two irrational numbers is always an integer Solution: The sum of two irrational numbers may be a rational number or an irrational number (c) Question 3. Which of the following is a correct statement? (a) Sum of two irrational numbers is always irrational (b) Sum of a rational and irrational number is always an irrational number (c) Square of an irrational number is always a rational number (d) Sum of two irrational numbers can never be an integer Solution: Sum of a rational and irrational number is always an irrational number (b) Question 4. Which of the following statements is true? (a) Product of two irrational numbers is always irrational (b) Product of a rational and an irrational number is always irrational (c) Sum of two irrational numbers can never be irrational (d) Sum of an integer and a rational number can never be an integer Solution: Product of a rational and an irrational number is always irrational (b) Question 5. Which of the following is irrational? Solution: Question 6. Which of the following is irrational? (a) 14 (b) $\frac{14}{16}$ (c) $0.\overline{1416}$ (d) $0.\overline{1014001400014}$ Solution: 0.1014001400014... is irrational as it is non-terminating nor repeating decimal. (d) Question 7. Which of the following is rational? Solution: Question 8. The number 0.318564318564318564... is: (a) a natural number (b) an integer (c) a rational number (d) an irrational number Solution: The number = 0.318564318564318564... = $0.\overline{318564}$ ∴ The decimal is non-terminating and recurring ∴ It is a rational number. (c) Question 9. If n is a natural number, then \sqrt{n} is (a) always a natural number (b) always a rational number (c) always an irrational number (d) sometimes a natural number and sometimes an irrational number Solution: If n is a natural number then \sqrt{n} may sometimes a natural number and sometime an irrational number e.g. If n = 2 then $\sqrt{2}$ is an irrational and if n = 4, then $\sqrt{4} = 2$ which is a rational number. (d) Question 10. Which of the following numbers can be represented as non-terminating, repeating decimals? Solution: Question 11. Every point on a number line represents (a) a unique real number (b) a natural number (c) a rational number (d) an irrational number Solution: Every point on a number line represents a unique real number. (a) Question 12. Which of the following is irrational? (a) 0.1516 (b) $0.\overline{1516}$ (c) $0.\overline{1516}$ (d) 0.5015001500015 . Solution: As it is non-terminating non-repeating decimals while others are terminating or non-terminating repeating decimals. (d) Question 13. The number $1.\overline{27}$ in the form $\frac{p}{q}$, where p and q are integers and $q \neq 0$, is Solution: Question 14. Solution: Question 15. Solution: Question 16. Solution: Question 17. Solution: Question 18. Solution: Question 19. Solution: An irrational number between 2 and 2.5 is $\sqrt{5}$ as it has approximate value 2.236... (b) Question 20. The number of consecutive zeros in $23 \times 34 \times 54 \times 7$, is (a) 3 (b) 2 (c) 4 (d) 5 Solution: In $23 \times 34 \times 54 \times 7$, number of consecutive zero will be 3 as $23 \times 54 = 2 \times 2 \times 2 \times 5 \times 5 \times 5 = 5000$ (a) Question 21. The smallest rational number by which $\frac{1}{3}$ should be multiplied so that its decimal expansion terminates after one place of decimal, is Solution: RD Sharma Class 9 Solutions Chapter 1 Number Systems Exercise 1.4 RD Sharma Class 9 Solutions Chapter 1 Number Systems Exercise 1.6 RD Sharma Class 9 Solutions Latest RS Aggarwal Solutions Class 9 PDF Download is available here 2020-2021 Edition. So, students can refer here to get RS Aggarwal Maths Class 9 Solutions Free PDF Download. With the help of uploaded Class 9 RS Aggarwal Solutions, CBSE Class 9 students can achieve good marks in Class 9 Maths. 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