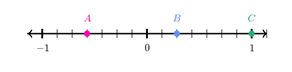
**Half mark and one-mark questions**

1. Write any two differences between rational numbers and irrational numbers?
2. How many rational numbers are there between 2 and 3?
3. Give an example to a rational number which is not an integer?
4. Raju says, “ is in p/q form. So it is a rational number”. Do you agree with Raju? Justify.
5. Is ‘0’ a rational number? Explain?
6. In how many ways you can express 4 in p/q form?
7. Express 9.76 in p/q form?
8. Write 6/7 in decimal form?
9. The decimal expansion of p/q is a terminating decimal. Then what can you say about prime factorization of the denominator ‘q’?
10. Find a rational number between 3 and 4 in mean method?
11. Insert 3 rational numbers between 4 and 5?
12. Represent on number line?
13. Which of the following is not a rational number?
14. B) 0.56 C) D) π
15. After how many digits will terminate?
16. 

In the above diagram, which rational numbers are represented by A, B and C?

1. Satish said, “We don’t know the value of irrational numbers because they are neither terminating nor repeating decimals. So we can’t represent them on number line”. Do you agree with him? Justify?
2. Write two irrational numbers between 5/2 and 7/3?
3. What are real numbers?
4. Which of the following has terminating decimal expansion?
5. B) C) D)
6. Give an example to show that “product of two irrational numbers need not be irrational”?
7. Write two rational numbers in p/q form whose decimal expansion is non-terminating repeating decimal?
8. Simplify
9. If = 3.162 then find the value of?
10. Rationalize the denominator of?
11. Find the simplest R.F of
12. Simplify + ?
13. Express in exponential form?
14. If = i.732, then find the value of?
15. Simplify (256)0.16 × (256)0.09?
16. Find the value of (64)0.5?
17. Write a rational number and an irrational number between 0.67 and 0.68?
18. Simplify ( – 4)²?
19. The length of a rectangle is and its breadth is . Then find its area?
20. Give an example to cubic surd?
21. Find the value of?
22. If 2 × =, find ‘x’?
23. What is the R.F of?
24. Rajani said, “ = a + b”. Do you agree with her? Explain?
25. Geetha said, “The R.F of is ”. Can you agree with her? Justify?
26. Is ‘x’ a rational number, if x3 = 8? Justify.
27. Express (2)3/4 as a surd?
28. Give an example to an irrational number which is not a surd?
29. Define π?
30. Find the value of ?
31. Express 6.25 in p/q form and find p + q?
32. is not an irrational number. Why?

**Two marks questions**

1. Express 0.67575….. in p/q form?
2. Insert three rational numbers between and ?
3. Find the value of up to three decimal places?
4. Simplify 4 - - 7.
5. What is the R.F of –2? Why are you saying it as R.F of – 2? Justify.
6. If x = 2 + 5, then find x + ?
7. Rationalize with its rationalizing factor?
8. if = 1.732, then find the value of up to three decimal places?
9. Is an irrational number? Give reason?
10. Find three rational numbers between 3 and 4 by mean method?
11. Subtract 4 - 2 from 7 + 3?
12. Rationalize the denominator of?
13. Area of a rectangle is 4 sq.cm. If its length is + , find its perimeter?
14. Check whether 5 and are irrational numbers or not?
15. Give examples to make the statements true?
16. The sum of two rational numbers is a rational number.
17. The product of two irrational numbers is an irrational number.
18. Sham said, “ and are equal”. Do you agree with him? Justify.
19. Write two an irrational number between and ? How many more there may be?
20. Examine whether (2 - ) (2 + ) is a rational or irrational?
21. Find the value of ( = 2.236).
22. If the side of an equilateral triangle is ( + 1)², then find its length of altitude?
23. Find the mean of 1 + and 7 + ?
24. If = then find the value of ‘x’?

**Four marks questions**

1. Locate on number line?
2. Visualize 3.487 on number line, using successive magnification.
3. Simplify ?
4. Express in the form a + b and find (a + b)²?
5. If = 2.236 and = 2.449 then find the value of up to three decimal places?
6. Ravi said, “R.F of (5)1/3 – (5)-1/3 is (5)2/3 + 1 + (5)-2/3 “. Do you agree with him? Justify your answer?
7. Rationalize the numerator of ?
8. If x = and y = then find x² - y²?
9. If = a – b, then find ‘a’ and ‘b’ values?
10. The Arithmetic mean of two surds is 5 + 9 If one of them is 1 + 12, then find the other surd?
11. If x = and y = then find x² + xy + y²?
12. If x = 7 + 4 and y = 7 - 4 then find + ?