

RD Sharma Solutions for Class 9 Maths Chapter 1 Number System

Exercise 1.1

Page No: 1.5

Question 1: Is zero a rational number? Can you write it in the form p/q , where p and q are integers and $q \neq 0$?

Solution:

Yes, zero is a rational number.

It can be written in p/q form provided that $q \neq 0$.

For Example: $0/1$ or $0/3$ or $0/4$ etc.

Question 2: Find five rational numbers between 1 and 2.

Solution:

We know, one rational number between two numbers m and $n = (m+n)/2$

To find: 5 rational numbers between 1 and 2

Step 1: Rational number between 1 and 2

$$= (1+2)/2$$

$$= 3/2$$

Step 2: Rational number between 1 and $3/2$

$$= (1+3/2)/2$$

$$= 5/4$$

Step 3: Rational number between 1 and $5/4$

$$= (1+5/4)/2$$

$$= 9/8$$

Step 4: Rational number between $3/2$ and 2

$$= 1/2 [(3/2) + 2]$$

$$= 7/4$$

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Step 5: Rational number between $7/4$ and 2

$$= 1/2 [7/4 + 2]$$

$$= 15/8$$

Arrange all the results: $1 < 9/8 < 5/4 < 3/2 < 7/4 < 15/8 < 2$

Therefore required integers are, $9/8, 5/4, 3/2, 7/4, 15/8$

Question 3: Find six rational numbers between 3 and 4.

Solution:

Steps to find n rational numbers between any two numbers:

Step 1: Multiply and divide both the numbers by $n+1$.

In this example, we have to find 6 rational numbers between 3 and 4. Here $n = 6$

Multiply 3 and 4 by 7

$$3 \times 7/7 = 21/7 \text{ and}$$

$$4 \times 7/7 = 28/7$$

Step 2: Choose 6 numbers between $21/7$ and $28/7$

$$3 = 21/7 < 22/7 < 23/7 < 24/7 < 25/7 < 26/7 < 27/7 < 28/7 = 4$$

Therefore, 6 rational numbers between 3 and 4 are

$$22/7, 23/7, 24/7, 25/7, 26/7, 27/7$$

Question 4: Find five rational numbers between $3/5$ and $4/5$.

Solution:

Steps to find n rational numbers between any two numbers:

Step 1: Multiply and divide both the numbers by $n+1$.

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In this example, we have to find 5 rational numbers between $\frac{3}{5}$ and $\frac{4}{5}$. Here $n = 5$

Multiply $\frac{3}{5}$ and $\frac{4}{5}$ by 6

$$\frac{3}{5} \times \frac{6}{6} = \frac{18}{30} \text{ and}$$

$$\frac{4}{5} \times \frac{6}{6} = \frac{24}{30}$$

Step 2: Choose 5 numbers between $\frac{18}{30}$ and $\frac{24}{30}$

$$\frac{3}{5} = \frac{18}{30} < \frac{19}{30} < \frac{20}{30} < \frac{21}{30} < \frac{22}{30} < \frac{23}{30} < \frac{24}{30} = \frac{4}{5}$$

Therefore, 5 rational numbers between $\frac{3}{5}$ and $\frac{4}{5}$ are

$\frac{19}{30}, \frac{20}{30}, \frac{21}{30}, \frac{22}{30}, \frac{23}{30}$

Question 5: Are the following statements true or false? Give reason for your answer.

(i) Every whole number is a natural number.

(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.

Reason: As 0 is not a natural number.

(ii) True.

(iii) False.

Reason: Numbers such as $\frac{1}{2}, \frac{3}{2}, \frac{5}{3}$ are rational numbers but not integers.

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(iv) True.

(v) False.

Reason: Negative numbers are not whole numbers.

(vi) False.

Reason: Proper fractions are not whole numbers

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Exercise 1.2

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Question 1: Express the following rational numbers as decimals.(i) $42/100$ (ii) $327/500$ (iii) $15/4$ **Solution:**

(i) By long division method

$$100 \overline{) 42} \quad (0.42)$$

$$400$$

$$\underline{200}$$

$$200$$

$$\underline{0}$$

$$\text{Therefore, } \frac{42}{100} = 0.42$$

(ii) By long division method

$$500 \overline{) 327.000} \quad (0.654)$$

$$3000$$

$$\underline{2700}$$

$$2500$$

$$\underline{2000}$$

$$2000$$

$$\underline{0}$$

$$\text{Therefore, } \frac{327}{500} = 0.654$$

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(iii) By long division method

$$4 \overline{) 15.00} \quad (3.75$$

$$12$$

$$\underline{30}$$

$$28$$

$$\underline{20}$$

$$20$$

$$\underline{0}$$

Therefore, $\frac{15}{4} = 3.75$

Question 2: Express the following rational numbers as decimals.

(i) $\frac{2}{3}$ (ii) $-\frac{4}{9}$ (iii) $-\frac{2}{15}$ (iv) $-\frac{22}{13}$ (v) $\frac{437}{999}$ (vi) $\frac{33}{26}$

Solution:

(i) Divide $\frac{2}{3}$ using long division:

$$\begin{array}{r} 0.66666 \\ 3 \overline{) 2.00000} \\ \underline{0} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 2 \end{array}$$

$$\frac{2}{3} = 0.666... = 0.\overline{6}$$

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(ii) Divide using long division: $-4/9$

$$9 \overline{) 4.000} \quad (0.444$$

$$3600$$

$$\overline{4000}$$

$$3600$$

$$\overline{4000}$$

$$3600$$

$$\overline{400}$$

$$-\frac{4}{9} = -0.4444... = -0.\overline{4}$$

(iii) Divide using long division: $-2/15$

$$\begin{array}{r} 0.133 \\ 15 \overline{) 2.0000} \end{array}$$

$$15$$

$$\overline{50}$$

$$45$$

$$\overline{50}$$

$$45$$

$$\overline{6}$$

$$-\frac{2}{15} = -0.133 = -0.\overline{13}$$

(iv) Divide using long division: $-22/13$

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$$\begin{array}{r}
 1.69230769 \\
 13 \overline{) 22.000} \\
 \underline{13} \\
 90 \\
 \underline{78} \\
 120 \\
 \underline{117} \\
 30 \\
 \underline{26} \\
 40 \\
 \underline{39} \\
 100 \\
 \underline{91} \\
 90 \\
 \underline{78} \\
 120 \\
 \underline{117} \\
 3
 \end{array}$$

$$-\frac{22}{13} = -1.6923076923... = -1.\overline{692307}$$

(v) Divide using long division: $437/999$

$$999 \overline{) 437.0000} \quad (0.43743)$$

$$3996$$

$$\underline{3740}$$

$$2997$$

$$\underline{7430}$$

$$6993$$

$$\underline{4370}$$

$$3996$$

$$\underline{3740}$$

$$2997$$

$$\underline{743}$$

$$\frac{437}{999} = 0.43743... = 0.\overline{437}$$

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(vi) Divide using long division: $33/26$

$$\begin{array}{r}
 1.2692307692 \\
 26 \overline{) 33.00000000} \\
 \underline{26} \\
 70 \\
 \underline{52} \\
 180 \\
 \underline{156} \\
 240 \\
 \underline{234} \\
 60 \\
 \underline{52} \\
 80 \\
 \underline{78} \\
 200 \\
 \underline{182} \\
 180 \\
 \underline{156} \\
 24
 \end{array}$$

$$\frac{33}{26} = 1.269230769... = 1.\overline{2692307}$$

Question 3: Look at several examples of rational numbers in the form 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 decimal representation will be terminating, if the denominators have factors 2 or 5 or both. Therefore, p/q is a terminating decimal, when prime factorization of q must have only powers of 2 or 5 or both.

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Exercise 1.3

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Question 1: Express each of the following decimals in the form p/q :

(i) 0.39

(ii) 0.750

(iii) 2.15

(iv) 7.010

(v) 9.90

(vi) 1.0001

Solution:

(i)

$$0.39 = 39/100$$

(ii)

$$0.750 = 750/1000 = 3/4$$

(iii)

$$2.15 = 215/100 = 43/20$$

(iv)

$$7.010 = 7010/1000 = 701/100$$

(v)

$$9.90 = 990/100 = 99/10$$

(vi)

$$1.0001 = 10001/10000$$

Question 2: Express each of the following decimals in the form p/q :(i) $0.\overline{4}$ (ii) $0.\overline{37}$ (iii) $0.\overline{54}$ (iv) $0.\overline{621}$ (v) $125.\overline{3}$ (vi) $4.\overline{7}$ (vii) $0.4\overline{7}$ **Solution:**(i) Let $x = 0.\overline{4}$

$$\text{or } x = 0.\overline{4} = 0.444 \dots (1)$$

Multiplying both sides by 10

$$10x = 4.444 \dots (2)$$

Subtract (1) by (2), we get

$$10x - x = 4.444 \dots - 0.444 \dots$$

$$9x = 4$$

$$x = 4/9$$

$$\Rightarrow 0.\overline{4} = 4/9$$

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(ii) Let $x = 0.3737\ldots$ (1)

Multiplying both sides by 100

$$100x = 37.37\ldots \quad \text{.....(2)}$$

Subtract (1) from (2), we get

$$100x - x = 37.37\ldots - 0.3737\ldots$$

$$100x - x = 37$$

$$99x = 37$$

$$x = 37/99$$

(iii) Let $x = 0.5454\ldots$ (1)

Multiplying both sides by 100

$$100x = 54.5454\ldots \quad (2)$$

Subtract (1) from (2), we get

$$100x - x = 54.5454\ldots - 0.5454\ldots$$

$$99x = 54$$

$$x = 54/99$$

(iv) Let $x = 0.621621\ldots$ (1)

Multiplying both sides by 1000

$$1000x = 621.621621\ldots \quad (2)$$

Subtract (1) from (2), we get

$$1000x - x = 621.621621\ldots - 0.621621\ldots$$

$$999x = 621$$

$$x = 621/999$$

$$\text{or } x = 23/37$$

(v) Let $x = 125.3333\ldots$ (1)

Multiplying both sides by 10

$$10x = 1253.3333\ldots \quad (2)$$

Subtract (1) from (2), we get

$$10x - x = 1253.3333\ldots - 125.3333\ldots$$

$$9x = 1128$$

$$\text{or } x = 1128/9$$

$$\text{or } x = 376/3$$

(vi) Let $x = 4.7777\ldots$ (1)

Multiplying both sides by 10

$$10x = 47.7777\ldots \quad (2)$$

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Subtract (1) from (2), we get

$$10x - x = 47.7777.... - 4.7777....$$

$$9x = 43$$

$$x = 43/9$$

(vii) Let $x = 0.47777....$

Multiplying both sides by 10

$$10x = 4.7777.... \quad \dots(1)$$

Multiplying both sides by 100

$$100x = 47.7777.... \quad (2)$$

Subtract (1) from (2), we get

$$100x - 10x = 47.7777.... - 4.7777....$$

$$90x = 43$$

$$x = 43/90$$

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

Here, 2 is a rational number but $\sqrt{3}$ is an irrational number

Therefore, the sum of a rational and irrational number is an irrational number.

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

$\sqrt{3}$ is not a perfect square thus an irrational number.

$\sqrt{2}$ is not a perfect square, thus an irrational number.

Therefore, sum of $\sqrt{2}$ and $\sqrt{3}$ gives an irrational number.

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

$\sqrt{3}$ is not a perfect square and hence, it is an irrational number

Similarly, $\sqrt{5}$ is not a perfect square and also an irrational number.

Since, sum of two irrational number, is an irrational number, therefore $\sqrt{3} + \sqrt{5}$ is an irrational number.

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

$$(\sqrt{2} - 2)^2 = 2 + 4 - 4\sqrt{2}$$

$$= 6 + 4\sqrt{2}$$

Here, 6 is a rational number but $4\sqrt{2}$ is an irrational number.

Since, the sum of a rational and an irrational number is an irrational number, therefore, $(\sqrt{2} - 2)^2$ is an irrational number.

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

We can write the given expression as;

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

$$[\text{Since, } (a + b)(a - b) = a^2 - b^2]$$

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$$[\text{Since, } (a + b)(a - b) = a^2 - b^2]$$

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$$= 4 - 2 = 2 \text{ or } 2/1$$

Since, 2 is a rational number, therefore, $(2 - \sqrt{2})(2 + \sqrt{2})$ is a rational number.

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

We can write the given expression as;

$$(\sqrt{3} + \sqrt{2})^2 = (\sqrt{3})^2 + (\sqrt{2})^2 + 2\sqrt{3} \times \sqrt{2}$$

$$= 3 + 2 + 2\sqrt{6}$$

$$= 5 + 2\sqrt{6}$$

[using identity, $(a+b)^2 = a^2 + 2ab + b^2$]

Since, the sum of a rational number and an irrational number is an irrational number, therefore, $(\sqrt{3} + \sqrt{2})^2$ is an irrational number.

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

$\sqrt{5}$ is an irrational number whereas 2 is a rational number.

The difference of an irrational number and a rational number is an irrational number.

Therefore, $\sqrt{5} - 2$ is an irrational number.

(x) $\sqrt{23}$

Since, $\sqrt{23} = 4.795831352331...$

As decimal expansion of this number is non-terminating and non-recurring therefore, it is an irrational number.

(xi) $\sqrt{225}$

$$\sqrt{225} = 15 \text{ or } 15/1$$

$\sqrt{225}$ is rational number as it can be represented in the form of p/q and q not equal to zero.

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(xii) 0.3796

As the decimal expansion of the given number is terminating, therefore, it is a rational number.

(xiii) 7.478478.....

As the decimal expansion of this number is non-terminating recurring decimal, therefore, it is a rational number.

(xiv) 1.101001000100001.....

As the decimal expansion of given number is non-terminating and non-recurring, therefore, it is an irrational number

Question 4: Identify the following as rational or irrational numbers. Give the decimal representation of rational numbers:

(i) $\sqrt{4}$ (ii) $3\sqrt{18}$ (iii) $\sqrt{1.44}$

(iv) $\sqrt{\frac{9}{27}}$ (v) $-\sqrt{64}$ (vi) $\sqrt{100}$

Solution:

(i) $\sqrt{4}$

$\sqrt{4} = 2$, which can be written in the form of a/b . Therefore, it is a rational number.

Its decimal representation is 2.0.

(ii) $3\sqrt{18}$

$$3\sqrt{18} = 9\sqrt{2}$$

Since, the product of a rational and an irrational number is an irrational number.

Therefore, $3\sqrt{18}$ is an irrational.

Or $3 \times \sqrt{18}$ is an irrational number.

(iii) $\sqrt{1.44}$

$$\sqrt{1.44} = 1.2$$

Since, every terminating decimal is a rational number, Therefore, $\sqrt{1.44}$ is a rational number.

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And, its decimal representation is 1.2.

(iv) $\sqrt{9/27}$

$$\sqrt{9/27} = 1/\sqrt{3}$$

Since, we know, quotient of a rational and an irrational number is irrational numbers, therefore, $\sqrt{9/27}$ is an irrational number.

(v) $-\sqrt{64}$

$$-\sqrt{64} = -8 \text{ or } -8/1$$

Therefore, $-\sqrt{64}$ is a rational number.

Its decimal representation is -8.0 .

(vi) $\sqrt{100}$

$$\sqrt{100} = 10$$

Since, 10 can be expressed in the form of a/b , such as $10/1$,

Therefore, $\sqrt{100}$ is a rational number.

And it's decimal representation is 10.0 .

Question 5: In the following equation, find which variables x, y, z etc. represent rational or irrational numbers:

(i) $x^2 = 5$

(ii) $y^2 = 9$

(iii) $z^2 = 0.04$

(iv) $u^2 = 17/4$

(v) $v^2 = 3$

(vi) $w^2 = 27$

(vii) $t^2 = 0.4$

Solution:

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(i) $x^2 = 5$

Taking square root both the sides,

$$x = \sqrt{5}$$

$\sqrt{5}$ is not a perfect square root, so it is an irrational number.

(ii) $y^2 = 9$

$$y^2 = 9$$

$$\text{or } y = 3$$

3 can be expressed in the form of a/b , such as $3/1$, so it is a rational number.

(iii) $z^2 = 0.04$

$$z^2 = 0.04$$

Taking square root both the sides, we get

$$z = 0.2$$

0.2 can be expressed in the form of a/b such as $2/10$, so it is a rational number.

(iv) $u^2 = 17/4$

Taking square root both the sides, we get

$$u = \sqrt{17/2}$$

Since, quotient of an irrational and a rational number is irrational, therefore, u is an Irrational number.

(v) $v^2 = 3$

Taking square root both the sides, we get

$$v = \sqrt{3}$$

Since, $\sqrt{3}$ is not a perfect square root, so v is irrational number.

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(vi) $w^2 = 27$

Taking square root both the sides, we get

$$w = 3\sqrt{3}$$

Since, the product of a rational and irrational is an irrational number. Therefore, w is an irrational number.

(vii) $t^2 = 0.4$

Taking square root both the sides, we get

$$t = \sqrt{4/10}$$

$$t = 2/\sqrt{10}$$

Since, quotient of a rational and an irrational number is irrational number. Therefore, t is an irrational number.

Exercise 1.5

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Question 1: Complete the following sentences:

- (i) Every point on the number line corresponds to a number which may 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 may 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 non-terminating recurring.
 (iv) Every real number is either rational number or an irrational number.

Question 2: Represent $\sqrt{6}$, $\sqrt{7}$, $\sqrt{8}$ on the number line.**Solution:**Find the equivalent values of $\sqrt{6}$, $\sqrt{7}$, $\sqrt{8}$

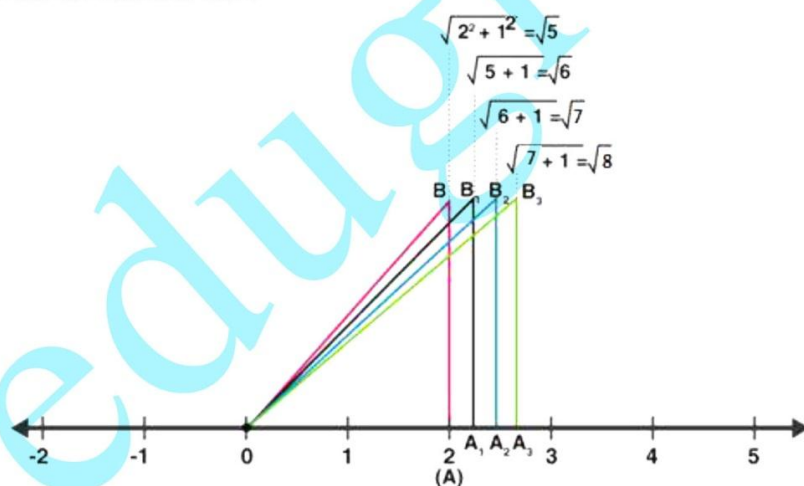
$$\sqrt{6} = 2.449$$

$$\sqrt{7} = 2.645$$

$$\sqrt{8} = 2.828$$

We can see that, all the given numbers lie between 2 and 3.

Draw on number line:



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Question 3: Represent $\sqrt{3.5}$, $\sqrt{9.4}$, $\sqrt{10.5}$ and on the real number line.

Solution:

Represent $\sqrt{3.5}$ on number line

Step 1: Draw a line segment $AB = 3.5$ units

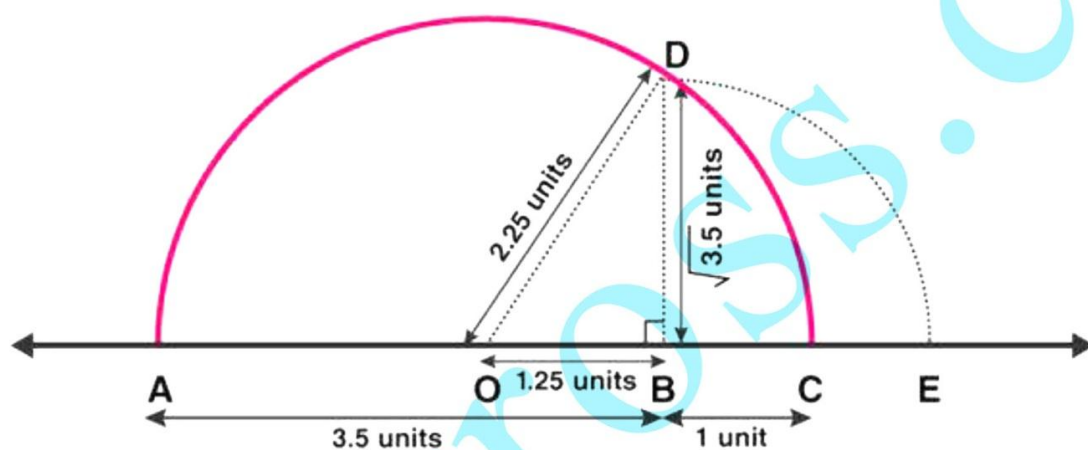
Step 2: Produce B till point C, such that $BC = 1$ unit

Step 3: Find the mid-point of AC, say O.

Step 4: Taking O as the centre draw a semi circle, passing through A and C.

Step 5: Draw a line passing through B perpendicular to OB, and cut semicircle at D.

Step 6: Consider B as a centre and BD as radius draw an arc cutting OC produced at E.



Now, from right triangle OBD,

$$BD^2 = OD^2 - OB^2$$

$$= OC^2 - (OC - BC)^2$$

(As, $OD = OC$)

$$BD^2 = 2OC \times BC - (BC)^2$$

$$= 2 \times 2.25 \times 1 - 1$$

$$= 3.5$$

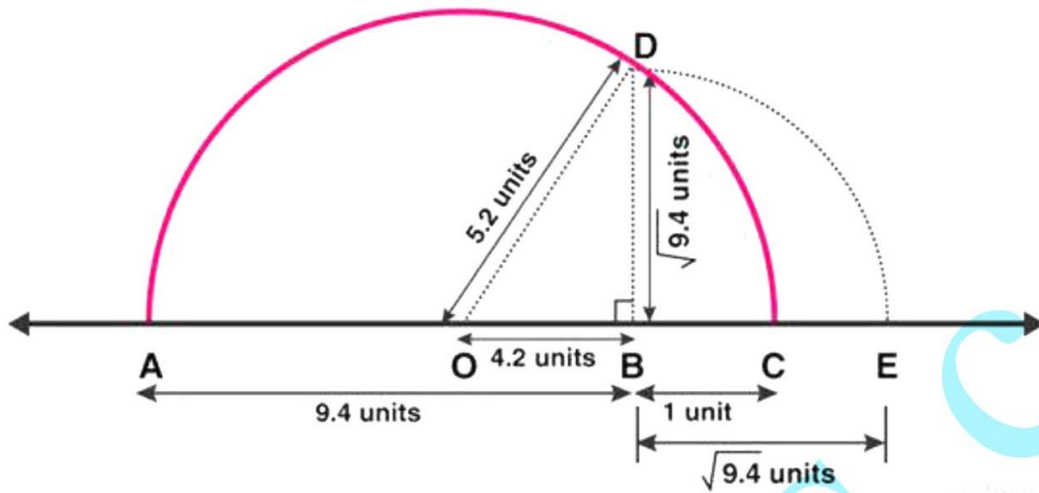
$$\Rightarrow BD = \sqrt{3.5}$$

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Represent $\sqrt{9.4}$ on number line

Step 1: Draw a line segment $AB = 9.4$ units

Follow step 2 to Step 6 mentioned above.



$$BD^2 = 2OC \times BC - (BC)^2$$

$$= 2 \times 5.2 \times 1 - 1$$

$$= 9.4$$

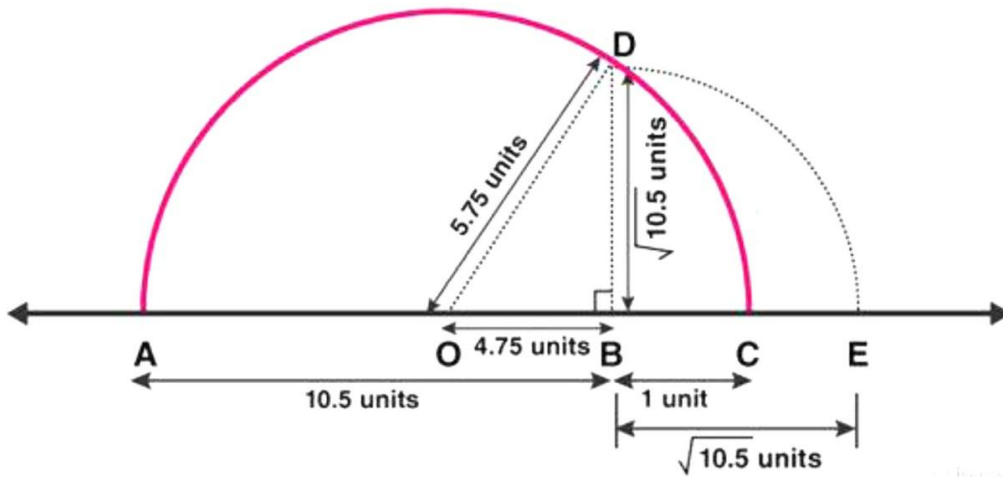
$$\Rightarrow BD = \sqrt{9.4}$$

Represent $\sqrt{10.5}$ on number line

Step 1: Draw a line segment $AB = 10.5$ units

Follow step 2 to Step 6 mentioned above, we get

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$$BD^2 = 2OC \times BC - (BC)^2$$

$$= 2 \times 5.75 \times 1 - 1$$

$$= 10.5$$

$$\Rightarrow BD = \sqrt{10.5}$$

Question 4: 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.

(ii) True.

(iii) False.

Exercise 1.6

Page No: 1.39

Question 1: Visualise 2.665 on the number line, using successive magnification.**Solution:**

2.665 lies between 2 and 3 on the number line.

Divide selected segment into 10 equal parts and mark each point of division as 2.1, 2.2, ..., 2.9, 2.10

2.665 lies between 2.6 and 2.7

Divide line segment between 2.6 and 2.7 in 10 equal parts such as 2.661, 2.662, and so on.

Here we can see that 5th point will represent 2.665.

Question 2: Visualise the representation of 5.37 on the number line upto 5 decimal places, that is upto 5.37777.**Solution:**

Clearly 5.37 is located between 5 and 6.

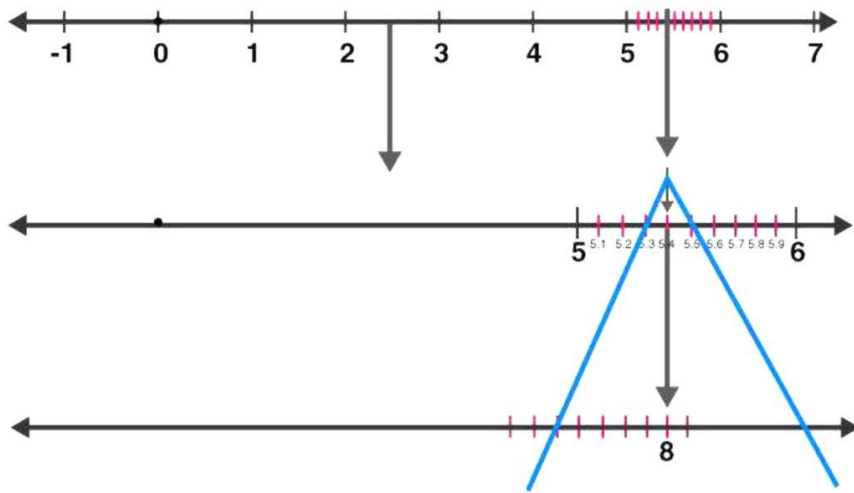
Again by successive magnification, and successively decrease 5.37 located between 5.3 and 5.4.

For more clarity, divide 5.3 and 5.4 portion of the number line into 10 equal parts and we can see 5.37 lies between 5.37 and 5.38.

To visualize 5.37 more accurately, divide line segment between 5.37 and 5.38 in ten equal parts. 5.37 lies between 5.377 and 5.378.

Again divide above portion between 5.377 and 5.378 into 10 equal parts, which shows 5.37 is located closer to 5.3778 than to 5.3777

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