MATHS

BOOKS - NAVNEET PUBLICATION

RATIONAL AND IRRATIONAL NUMBERS

Question Bank

1. Show the following numbers on a number line. Draw a separate number line for each

example :

$\frac{3}{2}, \frac{5}{2}, -\frac{3}{2}.$

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2. Show the following numbers on a number line. Draw a separate number line for each example :

$\frac{7}{5}, \frac{-2}{5}, \frac{-4}{5}$

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3. Show the following numbers on a number line. Draw a separate number line for each example : $\frac{-5}{8}, \frac{11}{8}$

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4. Show the following numbers on a number line. Draw a separate number line for each example : $\frac{13}{10}, \frac{-17}{10}$

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5. Observe the number line and answer the questions:

[Here, each unit distance is divided into 4 equal parts.]

Which number is indicated by point B ?

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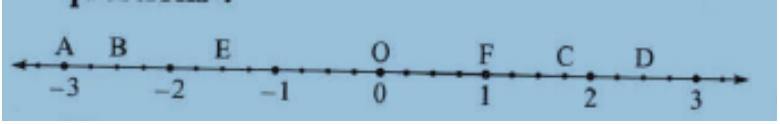
6. Observe the number line and answer the questions:



[Here, each unit distance is divided into 4 equal parts.]

Which point indicates the number $1\frac{3}{4}$?

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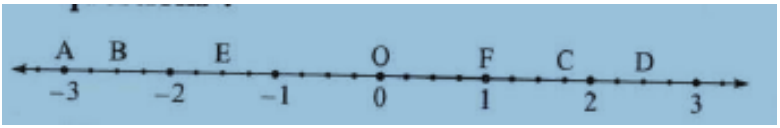
7. Observe the number line and answer the questions:



[Here, each unit distance is divided into 4

equal parts.]

State, whether the statement 'the point D denotes the number $\frac{5'}{2}$ is true or false.

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8. Compare the following numbers:

$-7, \ -2$

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9. Compare the following numbers:

$0, \frac{-9}{5}$

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10. Compare the following numbers:

$\frac{8}{7}, 0$

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11. Compare the following numbers:

$$\frac{-5}{4}, \frac{1}{4}$$

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12. Compare the following numbers:

$$\frac{40}{29}, \frac{141}{29}$$

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13. Compare the following numbers:

$$\frac{-17}{20}, \frac{-13}{20}$$

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14. Compare the following numbers:

$$\frac{15}{12}, \frac{7}{16}$$

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15. Compare the following numbers:

$$\frac{-25}{8}, \frac{-9}{4}$$

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16. Compare the following numbers:

$$\frac{12}{15}, \frac{3}{5}$$

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17. Compare the following numbers:

$$\frac{-7}{11}, \frac{-3}{4}$$

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18. Write the following rational numbers in decimal from :

$$\frac{9}{37}$$

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19. Write the following rational numbers in decimal from :

$\frac{18}{42}$

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20. Write the following rational numbers in decimal from :

$\frac{9}{14}$

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21. Write the following rational numbers in decimal from :

$$\frac{-103}{5}$$

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22. Write the following rational numbers in decimal from :

$$-\frac{11}{13}$$

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23. The number $\sqrt{2}$ is shown on a number line. Steps are given to show $\sqrt{3}$ on the number line using $\sqrt{2}$. Fill in the boxes properly and complete the activity.

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24. Show $\sqrt{5}$ on a number line.

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25. Represent the number $\sqrt{7}$ on the number line.

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26. Choose the correct alternative answer for each of the following questions:

Which of the following is a rational number ?

A. $\sqrt{2}$

B. 0.3

C. π

D. $\sqrt{7}$

Answer:

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27. Choose the correct alternative answer for each of the following questions:

Which of the following is an irrational number ?

A. $\sqrt{3^2 + 4^2}$

B. $\sqrt{121}$

C. $\sqrt{5}$

D. 3.14

Answer:

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28. Choose the correct alternative answer for each of the following questions:

Which of the following is a non-termi-nating recurring decimal form ?

A. 3.75

B. 0.4

C. 1.25

D. 0.010010001...

Answer:

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29. Choose the correct alternative answer for each of the following questions:

Which of the following is a natural number ?

A. $2\frac{1}{3}$

B. -7

C. $-2\frac{1}{3}$

D. 7

Answer:

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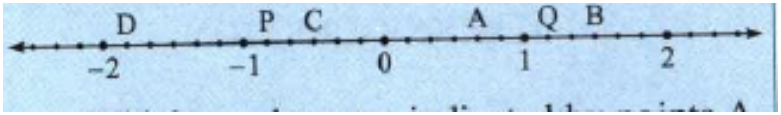
30. Observe the number line and answer the questions:



Which numbers are indicated by points A and D ?

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31. Observe the number line and answer the questions:

Which numbers are indicated by points P and Q ?

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32. Compare the following numbers:

$\frac{7}{9}, \frac{11}{13}$

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33. Compare the following numbers:

$\frac{-9}{13}, \frac{-5}{9}.$

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34. Compare the following numbers:

$\frac{25}{16}, \frac{71}{48}$

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35. Compare the following numbers:

$\frac{4}{7}, \frac{16}{28}$

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36. Show the following numbers on a number line. Draw a separate number line for each example:

$\frac{2}{3}, \frac{-5}{3}, \frac{5}{3}.$

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37. Show the following numbers on a number line. Draw a separate number line for each example:

$\frac{1}{6}, \frac{-7}{6}, \frac{11}{6}.$

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38. Classify the following decimal fractions as terminating and non-terminating recurring decimals:

0.777

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39. Classify the following decimal fractions as terminating and non-terminating recurring

decimals:

0.777...

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40. Classify the following decimal fractions as terminating and non-terminating recurring decimals:

9. $\overline{165}$

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41. Classify the following decimal fractions as terminating and non-terminating recurring decimals:

4.718

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42. Classify the following decimal fractions as terminating and non-terminating recurring decimals:

0.578

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43. Classify the following decimal fractions as terminating and non-terminating recurring decimals:

9.165165

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44. Classify the following decimal fractions as terminating and non-terminating recurring

decimals:

4. $\overline{13}$

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45. Classify the following decimal fractions as terminating and non-terminating recurring decimals:

81.234...

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46. Write the following numbers in decimal form:

$$\frac{7}{4}$$

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47. Write the following numbers in decimal form:

$$\frac{-29}{5}$$

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48. Write the following numbers in decimal form:

$$\frac{35}{8}$$

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49. Write the following numbers in decimal form:

$$\frac{2}{11}$$

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50. Write the following rational numbers in decimal form :

$\frac{9}{13}$

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51. Write the following rational numbers in decimal form :

-(15)/7

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52. Find three rational number that lie between

-(5)/3 and 7/8

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53. Find three rational number that lie between

$\frac{5}{7}$ and $\frac{6}{7}$. (OEQ)

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54. Show the number $\sqrt{10}$ and $\sqrt{17}$ on the same number line

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