



# MATHS

## BOOKS - NAVNEET PUBLICATION - MAHARASHTRA BOARD

### OPERATIONS ON FRACTIONS

#### Question Bank

1. Convert into improper fractions :

$$7\frac{2}{5}$$



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2. Convert into improper fractions :

$$5\frac{1}{6}$$



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3. Convert into improper fractions :

$$4\frac{3}{4}$$



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4. Convert into improper fractions :

$$2\frac{5}{9}$$



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5. Convert into improper fractions :

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



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6. Convert into mixed numbers :

$$\frac{30}{7}$$



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7. Convert into mixed numbers :

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



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**8.** Convert into mixed numbers :

$$\frac{15}{12}$$



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**9.** Convert into mixed numbers :

$$\frac{11}{8}$$



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**10.** Convert into mixed fractions :  $\frac{21}{4}$



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**11.** Convert into mixed numbers :

$$\frac{20}{7}$$



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**12.** Write the following examples using fractions :

If 9 kg of rice is shared equally among 5

persons, how many kilograms of rice does each person get ?



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**13.** Write the following examples using fractions :

To make 5 shirts of the same size, 11 metres of cloth is needed. How much cloth is needed for one shirt?



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**14.** Add :

$$4\frac{1}{2} + 3\frac{1}{3}$$



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**15.** Subtract :

$$7\frac{3}{7} - 6\frac{2}{5}$$



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**16.**  $6\frac{1}{3} + 2\frac{1}{3}$







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17. Add :

$$1\frac{1}{4} + 3\frac{1}{2}$$



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18.  $5\frac{1}{5} + 2\frac{1}{7}$



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**19. Add :**

$$3\frac{1}{5} + 2\frac{1}{3}$$



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**20. Subtract :**

$$3\frac{1}{3} - 1\frac{1}{4}$$



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**21. Subtract :**

$$5\frac{1}{2} - 3\frac{1}{3}$$



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**22.**  $7\frac{1}{8} - 6\frac{1}{10}$



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**23. Subtract :**

$$7\frac{1}{2} - 3\frac{1}{5}$$



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**24.** Solve :

Suyash bought  $2\frac{1}{2}$  kg of sugar and Ashish bought  $3\frac{1}{2}$  kg of sugar. How much sugar did they buy altogether? If sugar costs 32 per kg, how much did they spend on the sugar they bought ?



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**25. Solve :**

Aradhana grows potatoes  $\frac{2}{5}$  the part of her garden, green leafy vegetables in  $\frac{1}{3}$  part and brinjals in the remaining part. On how much of her plot did she plant brinjals?



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**26. Solve :**

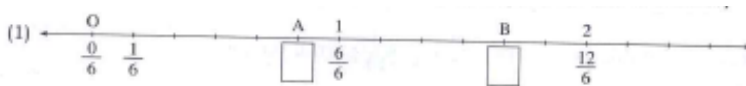
Sandeep filled water in  $\frac{4}{5}$ th of an empty tank. After that, Ramakant filled  $\frac{1}{4}$  th part more of

the same tank. Then Umesh used  $\frac{3}{14}$  th part of the tank to water the garden. If the tank has a maximum capacity of 560 litres, how much water is left in the tank now?



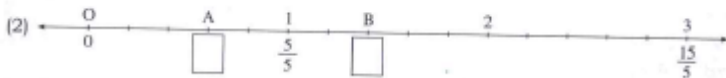
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27. What fractions do the points A and B on the number lines below, show?



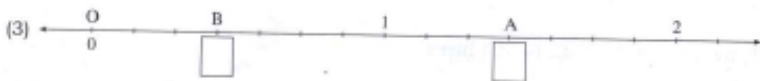
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28. What fractions do the points A and B on the number lines below, show?



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29. What fractions do the points A and B on the number lines below, show?



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**30.** Show the following fractions on the

Number line:

$$\frac{3}{5}, \frac{6}{5}, 2\frac{3}{5}$$



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**31.** Show the following fractions on the

Number line:

$$\frac{3}{4}, \frac{5}{4}, 2\frac{1}{4}$$



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**32. Multiply :**

$$\frac{7}{5} \times \frac{1}{4}$$



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**33. Multiply :**

$$\frac{6}{7} \times \frac{2}{5}$$



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**34. Multiply :**

$$\frac{5}{9} \times \frac{4}{9}$$



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**35. Multiply :**

$$\frac{4}{11} \times \frac{2}{7}$$



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**36. Multiply :**

$$\frac{1}{5} \times \frac{7}{2}$$



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**37. Multiply :**

$$\frac{9}{7} \times \frac{7}{8}$$



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**38. Multiply :**

$$\frac{5}{6} \times \frac{6}{5}$$



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**39. Multiply :**

$$\frac{6}{17} \times \frac{3}{2}$$



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**40.** Ashokrao planted bananas on  $\frac{2}{7}$  th of his field of 21 acres. What is the area of the banana plantation?



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**41.** On the total number of soldiers In our army,  $\frac{4}{9}$  th are posted on the northern border and one-third of them on the northeastern border. If the number of soldiers on the

northern border is 5,40,000, how many are posted on the northeastern border?



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**42.** Write the reciprocals of the following numbers :

7



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**43.** Write the reciprocals of the following numbers :

$$\frac{11}{3}$$



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**44.** Write the reciprocals of the following numbers :

$$\frac{5}{13}$$



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**45.** Write the reciprocals of the following numbers :

2



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**46.** Write the reciprocals of the following numbers :

$\frac{6}{7}$



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**47.** Carry out the following divisions :

$$\frac{2}{3} \div \frac{1}{4}$$



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**48.** Carry out the following divisions :

$$\frac{5}{9} \div \frac{3}{2}$$



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**49.** Carry out the following divisions :

$$\frac{3}{7} \div \frac{5}{11}$$



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50. Carry out the following divisions :

$$\frac{11}{12} \div \frac{4}{7}$$



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51. Four hundred and twenty students participated in the Swachh Bharat campaign.

They cleaned  $\frac{42}{75}$  th part of the town,

Sevagram. What part of Sevagram did each

student clean, if the work was equally shared by all ?



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**52. What is a proper fraction ?**



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**53. What is an improper fraction?**



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54. What is the reciprocal of

12



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55. What is the reciprocal of

$\frac{3}{4}$



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56. What is the reciprocal of

$$\frac{5}{3}$$



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57. Which integer does not have a reciprocal ?



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