PRACTICE QUESTIONS
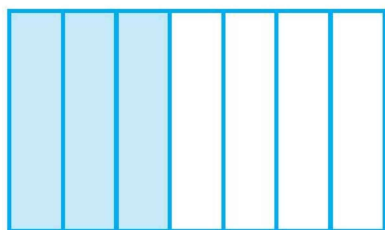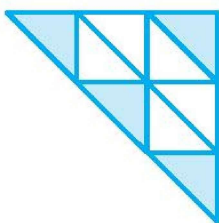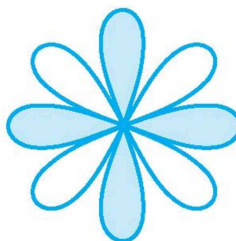## CLASS VI: CHAPTER - 7
FRACTIONS

1. Write the fraction representing the shaded portion.
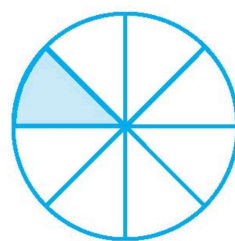

(i) (ii) (iii) (iv)

2. What fraction of a day is 12 hours?

3. What fraction of an hour is 20 minutes?

4. Show $\dfrac{3}{5}$ on a number line.

5. Show $\dfrac{1}{10}, \dfrac{0}{10}, \dfrac{5}{10}, \dfrac{10}{10}$ on a number line.

6. Can you show any other fraction between 0 and 1? Write five more fractions that you can show and depict them on the number line.

7. Give a proper fraction :
   (a) whose numerator is 5 and denominator is 7.
   (b) whose denominator is 9 and numerator is 5.
   (c) whose numerator and denominator add up to 10. How many fractions of this kind can you make?
   (d) whose denominator is 4 more than the numerator.

8. A fraction is given. How will you decide, by just looking at it, whether, the fraction is (a) less than 1? (b) equal to 1?

9. Fill up using one of these : '>', '<' or '='

   (a) $\dfrac{1}{2}\ \square\ 1$ (b) $\dfrac{3}{5}\ \square\ 1$ (c) $1\ \square\ \dfrac{7}{8}$ (d) $\dfrac{4}{4}\ \square\ 1$ (e) $\dfrac{2005}{2005}\ \square\ 1$

10. In a class A of 25 students, 20 passed in first class; in another class B of 30 students, 24 passed in first class. In which class was a greater fraction of students getting first class?

11. My mother divided an apple into 4 equal parts. She gave me two parts and my brother one part. How much apple did she give to both of us together?

12. Mother asked Neelu and her brother to pick stones from the wheat. Neelu picked one fourth of the total stones in it and her brother also picked up one fourth of the stones. What fraction of the stones did both pick up together?

13. Sohan was putting covers on his note books. He put one fourth of the covers on Monday. He put another one fourth on Tuesday and the remaining on Wednesday. What fraction of the covers did he put on Wednesday?

14. Find the difference between $\dfrac{7}{8}\ and\ \dfrac{3}{8}$.

15. Mother made a gud patti in a round shape. She divided it into 5 parts. Seema ate one piece from it. If I eat another piece then how much would be left?

16. My elder sister divided the watermelon into 16 parts. I ate 7 out them. My friend ate 4. How much did we eat between us? How much more of the watermelon did I eat than my friend? What portion of the watermelon remained?

17. Ramesh had 20 pencils, Sheelu had 50 pencils and Jamaal had 80 pencils. After 4 months, Ramesh used up 10 pencils, Sheelu used up 25 pencils and Jamaal used up 40 pencils. What fraction did each use up? Check if each has used up an equal fraction of her/his pencils?

18. Simplify: $8\dfrac{1}{4} - 2\dfrac{5}{6}$.

19. Find $4\dfrac{2}{5} - 2\dfrac{1}{5}$.

20. In a class A of 25 students, 20 passed in first class; in another class B of 30 students, 24 passed in first class. In which class was a greater fraction of students getting first class?

21. Mohan was given $\dfrac{3}{8}$ of a basket of oranges. What fraction of oranges was left in the basket?

22. Uday read 75 pages of a book containing 200 pages. Sandesh read $\dfrac{3}{5}$ of the same book. Who read less?

23. Express the following as mixed fractions:
    $(a)\dfrac{17}{4}$ $(b)\dfrac{11}{3}$ $(c)\dfrac{27}{5}$ $(d)\dfrac{7}{3}$ $(e)\dfrac{11}{5}$

24. Express the following mixed fractions as improper fractions:
    (a) $2\dfrac{3}{4}$ (b) $2\dfrac{4}{9}$ (c) $10\dfrac{3}{5}$ (d) $5\dfrac{6}{7}$ (e) $7\dfrac{3}{4}$ (f) $5\dfrac{3}{7}$ (g) $7\dfrac{1}{9}$

25. Draw number lines and locate the points on them:
    (a) $\dfrac{1}{2}, \dfrac{1}{4}, \dfrac{3}{4}, \dfrac{4}{4}$ (b) $\dfrac{1}{8}, \dfrac{2}{8}, \dfrac{3}{8}, \dfrac{4}{8}, \dfrac{7}{8}$ (c) $\dfrac{1}{5}, \dfrac{2}{5}, \dfrac{3}{5}, \dfrac{4}{5}, \dfrac{7}{5}$

26. Five five equivalent fractions of each of the following:
    (a) $\dfrac{5}{9}$ (b) $\dfrac{2}{7}$ (c) $\dfrac{3}{5}$ (d) $\dfrac{1}{5}$ (e) $\dfrac{2}{3}$

27. Fill in the box in each of the following by the correct number:

(a) $\dfrac{2}{7} = \dfrac{8}{\boxed{....}}$ (b) $\dfrac{18}{24} = \dfrac{\boxed{....}}{4}$ (c) $\dfrac{45}{60} = \dfrac{15}{\boxed{....}}$ (d) $\dfrac{3}{5} = \dfrac{\boxed{....}}{20}$ (e) $\dfrac{5}{8} = \dfrac{10}{\boxed{....}}$

28. Reduce the following fractions to simplest form:

(a) $\dfrac{48}{60}$ (b) $\dfrac{7}{56}$ (c) $\dfrac{12}{52}$ (d) $\dfrac{84}{98}$ (e) $\dfrac{150}{60}$

29. Write these in ascending and also in descending order:

(a) $\dfrac{1}{2}, \dfrac{1}{4}, \dfrac{5}{4}, \dfrac{3}{4}, \dfrac{4}{4}, \dfrac{0}{4}$ (b) $\dfrac{1}{8}, \dfrac{12}{8}, \dfrac{8}{8}, \dfrac{4}{8}, \dfrac{7}{8}$ (c) $\dfrac{11}{5}, \dfrac{12}{5}, \dfrac{3}{5}, \dfrac{1}{5}, \dfrac{7}{5}$

30. Solve:

(a) $\dfrac{2}{3} + \dfrac{1}{7}$ (b) $\dfrac{3}{4} + \dfrac{1}{3}$ (c) $\dfrac{4}{5} + \dfrac{2}{3}$ (d) $\dfrac{3}{10} + \dfrac{7}{15}$ (e) $\dfrac{5}{6} + \dfrac{1}{3}$ (f) $\dfrac{1}{2} + \dfrac{1}{3} + \dfrac{1}{6}$

(g) $\dfrac{2}{3} + \dfrac{3}{4} + \dfrac{1}{2}$ (h) $4\dfrac{2}{3} - 2\dfrac{1}{3}$ (i) $1\dfrac{1}{3} - 2\dfrac{1}{3}$ (j) $4\dfrac{2}{3} + 3\dfrac{1}{4}$ (k) $1\dfrac{1}{3} + 3\dfrac{2}{3}$ (l) $\dfrac{16}{5} - \dfrac{4}{3}$

1. Fill in the blanks:

   (a) $\dfrac{11}{16} \ldots \ldots \dfrac{14}{15}$ (b) $\dfrac{8}{15} \ldots \ldots \dfrac{95}{14}$ (c) $\dfrac{12}{75} \ldots \ldots \dfrac{32}{200}$

2. Ali divided one fruit cake equally among six persons. What part of the cake he gave to each person?

3. Express $\dfrac{11}{20}$ as a decimal.

4. Express $6\dfrac{2}{3}$ as an improper fraction.

5. Express $3\dfrac{2}{5}$ as a decimal.

6. Express 0.041 as a fraction.

7. Express 6.03 as a mixed fraction.

8. Arrange the fractions $\dfrac{2}{3}, \dfrac{3}{4}, \dfrac{1}{2} \, and \, \dfrac{5}{6}$ in ascending order

9. Arrange the fractions $\dfrac{6}{7}, \dfrac{7}{8}, \dfrac{4}{5} \, and \, \dfrac{3}{4}$ in descending order.

10. Write $\dfrac{3}{4}$ as a fraction with denominator 44

11. Write $\dfrac{5}{6}$ as a fraction with numerator 60

12. Write $\dfrac{129}{8}$ as a mixed fraction.

13. Add the fractions $\dfrac{3}{8} \, and \, \dfrac{2}{3}.$

14. Add the fractions $\dfrac{3}{8}$ and $6\dfrac{3}{4}$.

15. Subtract $\dfrac{1}{6}$ from $\dfrac{1}{2}$.

16. Subtract $8\dfrac{1}{3}$ from $\dfrac{100}{9}$.

17. Subtract $1\dfrac{1}{4}$ from $6\dfrac{1}{2}$.

18. Add $1\dfrac{1}{4}$ and $6\dfrac{1}{2}$.

19. Katrina rode her bicycle $6\dfrac{1}{2}$ km in the morning and $8\dfrac{3}{4}$ km in the evening. Find the distance travelled by her altogether on that day.

20. A rectangle is divided into certain number of equal parts. If 16 of the parts so formed represent the fraction $\dfrac{1}{4}$, find the number of parts in which the rectangle has been divided.

21. Grip size of a tennis racquet is $11\dfrac{9}{80}$ cm. Express the size as an improper fraction.

22. Mr. Rajan got a job at the age of 24 years and he got retired from the job at the age of 60 years. What fraction of his age till retirement was he in the job?

23. On an average $\dfrac{1}{10}$ of the food eaten is turned into organism's own body and is available for the nextlevel of consumer in a food chain. What fraction of the food eaten is not available for the next level?

24. The food we eat remains in the stomach for a maximum of 4 hours. For what fraction of a day, does it remain there?

25. It was estimated that because of people switching to Metro trains, about 33000 tonnes of CNG, 3300 tonnes of diesel and 21000 tonnes of petrol was saved by the end of year 2007. Find the fraction of : (i) the quantity of diesel saved to the quantity of petrol saved. (ii) the quantity of diesel saved to the quantity of CNG saved.

26. A cup is $\dfrac{1}{3}$ full of milk. What part of the cup is still to be filled by milk to make it full?

27. Mary bought $3\frac{1}{2}$ m of lace. She used $1\frac{3}{4}$ m of lace for her new dress. How much lace is left with her?

28. When Sunita weighed herself on Monday, she found that she had gained $1\frac{1}{4}$ kg. Earlier her weight was $46\frac{3}{8}$ kg. What was her weight on Monday?

29. Sunil purchased $12\frac{1}{2}$ litres of juice on Monday and $14\frac{3}{4}$ litres of juice on Tuesday. How many litres of juice did he purchase together in two days?

30. Nazima gave $2\frac{3}{4}$ litres out of the $5\frac{1}{2}$ litres of juice she purchased to her friends. How many litres of juice is left with her?

31. Roma gave a wooden board of length $150\frac{1}{4}$ cm to a carpenter for making a shelf. The Carpenter sawed off a piece of $40\frac{1}{5}$ cm from it. What is the length of the remaining piece?

32. Nasir travelled $3\frac{1}{2}$ km in a bus and then walked $1\frac{1}{8}$ km to reach a town. How much did he travel to reach the town?

33. The fish caught by Neetu was of weight $3\frac{3}{4}$ kg and the fish caught by Narendra was of weight $2\frac{1}{2}$ kg. How much more did Neetu's fish weigh than that of Narendra?

34. Neelam's father needs $1\frac{3}{4}$ m of cloth for the skirt of Neelam's new dress and $\frac{1}{2}$ m for the scarf. How much cloth must he buy in all?

35. Write a pair of fractions whose sum is $\frac{7}{11}$ and the difference is $\frac{2}{11}$

36. Simplify: $\frac{5}{6} + \frac{3}{4} + \frac{1}{2}$

37. Simplify: $\frac{5}{8} + \frac{2}{5} + \frac{3}{4}$

38. Simplify: $\dfrac{3}{10} + \dfrac{7}{15} + \dfrac{3}{5}$

39. Simplify: $4\dfrac{2}{3} + 3\dfrac{1}{4} + 7\dfrac{1}{2}$

40. Simplify: $7\dfrac{1}{3} + 3\dfrac{2}{3} + 5\dfrac{1}{6}$

41. Simplify: $2\dfrac{1}{3} + 1\dfrac{2}{3} + 5\dfrac{1}{6}$

42. Simplify: $2\dfrac{1}{3} - 1\dfrac{2}{3} + 5\dfrac{1}{6}$

43. Simplify: $7\dfrac{1}{3} + 3\dfrac{2}{3} - 5\dfrac{1}{6}$

44. If $\dfrac{5}{8} = \dfrac{20}{p}$, then find the value of p.

45. Arrange in descending order: $\dfrac{8}{17}, \dfrac{8}{5}, \dfrac{8}{9}, \dfrac{8}{13}$

46. Arrange in descending order: $\dfrac{5}{9}, \dfrac{3}{12}, \dfrac{1}{3}, \dfrac{4}{15}$

47. Arrange in descending order: $\dfrac{2}{7}, \dfrac{11}{35}, \dfrac{9}{14}, \dfrac{13}{28}$

48. Arrange in ascending order: $\dfrac{2}{5}, \dfrac{3}{4}, \dfrac{1}{2}, \dfrac{3}{5}$

49. Arrange in ascending order: $\dfrac{4}{6}, \dfrac{3}{8}, \dfrac{6}{12}, \dfrac{5}{16}$

50. Arrange in ascending order: $\dfrac{5}{6}, \dfrac{3}{8}, \dfrac{6}{12}, \dfrac{1}{3}, \dfrac{6}{8}$