# PRACTICE QUESTIONS
## CLASS – VII: CHAPTER – 2
## FRACTIONS AND DECIMALS

**1.** Fill in the blanks:

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

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

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

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

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

**6.** Express 0.041 as a fraction.

**7.** Express 6.03 as a mixed fraction.

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

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

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

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

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

**13.** Add the fractions $\frac{3}{8}\ and\ \frac{2}{3}.$

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

**15.** Subtract $\frac{1}{6}$ *from* $\frac{1}{2}$.

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

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

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

**19.** Katrina rode her bicycle $6\frac{1}{2}$ km in the morning and $8\frac{3}{4}$ 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 $\frac{1}{4}$, find the number of parts in which the rectangle has been divided.

**21.** Grip size of a tennis racquet is $11\frac{9}{80}$ 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 $\frac{1}{10}$ 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 $\frac{1}{3}$ 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.** 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?

**29.** 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?

**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: $\frac{3}{10}+\frac{7}{15}+\frac{3}{5}$

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

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

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

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

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

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

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

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

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

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

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

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

**51.** Ramesh solved $\frac{2}{7}$ part of an exercise while Seema solved $\frac{4}{5}$ of it. Who solved lesser part?

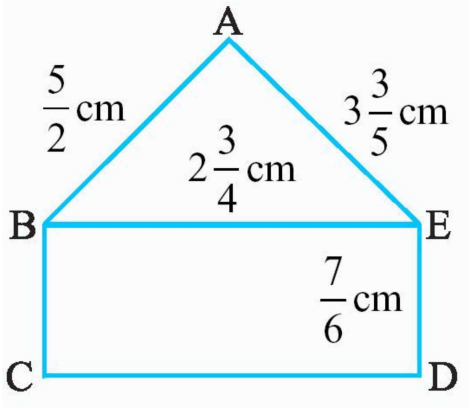
**52.** Sameera purchased $3\frac{1}{2}$ kg apples and $4\frac{3}{4}$ kg oranges. What is the total weight of fruits purchased by her?

**53.** Suman studies for $5\frac{2}{3}$ hours daily. She devotes $2\frac{4}{5}$ hours of her time for Science and Mathematics. How much time does she devote for other subjects?

**54.** Arrange the following in descending order:

**55.** A rectangular sheet of paper is $12\frac{1}{2}$ cm long and $10\frac{2}{3}$ cm wide. Find its perimeter.

**56.** Find the perimeters of (i) . ABE (ii) the rectangle BCDE in this figure. Whose perimeter is greater?




**57.** Ritu ate $\frac{4}{5}$ part of an apple and the remaining apple was eaten by her brother Somu. How much part of the apple did Somu eat? Who had the larger share? By how much?

**58.** Michael finished colouring a picture in $\frac{7}{12}$ hour. Vaibhav finished colouring the same picture in $\frac{3}{4}$ hour. Who worked longer? By what fraction was it longer?

**59.** Represent pictorially: $2\times\frac{2}{5}=\frac{4}{5}$

**60.** In a class of 40 students $\frac{1}{5}$ of the total number of studetns like to study English, $\frac{2}{5}$ of the total number like to study mathematics and the remaining students like to study Science.
(i) How many students like to study English?
(ii) How many students like to study Mathematics?
(iii) What fraction of the total number of students like to study Science?

**61.** Find $\frac{1}{2}$ of (i) 24 (ii) 46

**62.** Find $\frac{3}{4}$ of (i) 16 (ii) 36

**63.** Multiply and express as a mixed fraction:
(a) $3\times5\frac{1}{5}$ (b) $5\times6\frac{3}{4}$ (c) $3\frac{1}{4}\times6$ (d) $3\frac{2}{5}\times8$

**64.** Find $\frac{1}{2}$ of (i) $2\frac{3}{4}$ (ii) $4\frac{2}{9}$

**65.** Find $\frac{5}{8}$ of (i) $3\frac{5}{6}$ (ii) $9\frac{2}{3}$

**66.** Sushant reads $\frac{1}{3}$ part of a book in 1 hour. How much part of the book will he read in $2\frac{1}{5}$ hours?

**67.** Vidya and Pratap went for a picnic. Their mother gave them a water bag that contained 5 litres of water. Vidya consumed $\frac{2}{5}$ of the water. Pratap consumed the remaining water.
(i) How much water did Vidya drink?
(ii) What fraction of the total quantity of water did Pratap drink?

**68.** Saili plants 4 saplings, in a row, in her garden. The distance between two adjacent saplings is $\frac{3}{4}$ m. Find the distance between the first and the last sapling.

**69.** Lipika reads a book for $1\frac{3}{4}$ hours every day. She reads the entire book in 6 days. How many hours in all were required by her to read the book?

**70.** A car runs 16 km using 1 litre of petrol. How much distance will it cover using $2\frac{3}{4}$ litres of petrol.

**71.** Find: (i) $\frac{2}{5} \div \frac{1}{2}$ (ii) $2\frac{1}{3} \div \frac{3}{5}$ (iii) $3\frac{1}{5} \div 1\frac{2}{3}$ (iv) $2\frac{1}{5} \div 1\frac{1}{5}$

**72.** Express in kg:
(i) 200 g (ii) 3470 g (iii) 4 kg 8 g (iv) 2598 mg

**73.** Write the following decimal numbers in the expanded form:
(i) 20.03 (ii) 2.03 (iii) 200.03 (iv) 2.034

**74.** Write the place value of 2 in the following decimal numbers:
(i) 2.56 (ii) 21.37 (iii) 10.25 (iv) 9.42 (v) 63.352.

**75.** Express as rupees using decimals.
(a) 5 paise (b) 350 paise (c) 2rupees 60paise (d) 5 rupees 9 paise

**76.** Express as metres using decimals.
(a) 15 cm (b) 8 cm (c) 2 m 15 cm (d) 3 m 70 cm

**77.** Express as cm using decimals.
(a) 25 mm (b) 5 mm (c) 176 mm (d) 4 cm 5 mm

**78.** Express as km using decimals.
(a) 6 m (b) 55 m (c) 4545 m (d) 6 km 50 m

**79.** Express as kg using decimals.
(a) 8 g (b) 160g (c) 7550 g (d) 6 kg 80 g (e) 5 kg 20 g

**80.** Express each of the following without using decimals:
(a)Rs.5.25 (b)8.354 g (c)3.5cm (d)3.05km
(e)7.54m (f)15.005 kg (g)12.05m (h)0.2m

**81.** Shyama bought 5 kg 300 g apples and 3 kg 250 g mangoes. Sarala bought 4 kg 800 g oranges and 4 kg 150 g bananas. Who bought more fruits?

**82.** How much less is 28 km than 42.6 km?

**83.** The side of an equilateral triangle is 3.5 cm. Find its perimeter.

**84.** The length of a rectangle is 7.1 cm and its breadth is 2.5 cm. What is the area of the rectangle?

**85.** A two-wheeler covers a distance of 55.3 km in one litre of petrol. How much distance will it cover in 10 litres of petrol?

**86.** Find the area of rectangle whose length is 5.7cm and breadth is 3 cm.

**87.** Find the average of 4.2, 3.8 and 7.6.

**88.** Each side of a regular polygon is 2.5 cm in length. The perimeter of the polygon is 12.5cm. How many sides does the polygon have?

**89.** A car covers a distance of 89.1 km in 2.2 hours. What is the average distance covered by it in 1 hour?

**90.** Convert 2009 paise to rupees and express the result as a mixed fraction.

**91.** Convert 1537cm to m and express the result as an improper fraction.

**92.** Convert 2435m to km and express the result as mixed fraction.

**93.** Express 0.041 as a fraction.

**94.** A vehicle covers a distance of 43.2 km in 2.4 litres of petrol. How much distance will it cover in one litre of petrol?

**95.** Find:
(i) 7 ÷ 3.5 (ii) 36 ÷ 0.2 (iii) 3.25 ÷ 0.5 (iv) 30.94 ÷ 0.7 (v) 0.5 ÷ 0.25
(vi) 7.75 ÷ 0.25 (vii) 76.5 ÷ 0.15 (viii) 37.8 ÷ 1.4 (ix) 2.73 ÷ 1.3

**96.** Find:
(i) 7.9 ÷ 1000 (ii) 26.3 ÷ 1000 (iii) 38.53 ÷ 1000
(iv) 128.9 ÷ 1000 (v) 0.5 ÷ 1000

**97.** Find:
(i) 0.4 ÷ 2 (ii) 0.35 ÷ 5 (iii) 2.48 ÷ 4 (iv) 65.4 ÷ 6
(v) 651.2 ÷ 4 (vi) 14.49 ÷ 7 (vii) 3.96 ÷ 4 (viii) 0.80 ÷ 5

**98.** Find: (i) 7.75 ÷ 0.25 (ii) 42.8 ÷ 0.02 (iii) 5.6 ÷ 1.4

**99.** Find: (i) 15.5 ÷ 5 (ii) 126.35 ÷ 7

**100.** Find:
(i) 2.5 × 0.3 (ii) 0.1 × 51.7 (iii) 0.2 × 316.8 (iv) 1.3 × 3.1
(v) 0.5 × 0.05 (vi) 11.2 × 0.15 (vii) 1.07 × 0.02
(viii) 10.05 × 1.05 (ix) 101.01 × 0.01 (x) 100.01 × 1.1