MATHS

BOOKS - NCERT EXEMPLAR

FRACTIONS AND DECIMALS

Solved Examples

1. Savita is dividing $1\left(\frac{3}{4}\right)$ kg of sweets equally among her seven friends. How much does each friend receive?

A. $\frac{3}{4}$ kg

B. $\frac{1}{4}$ kg

C. $\frac{1}{2}$ kg

D. $\frac{3}{28}$ kg

Answer: B

Watch Video Solution

2. If $\frac{3}{4}$ of a number is 12, the number is

A. 9

B. 16

C. 18

D. 32

Answer: B

Watch Video Solution

3. Product of fractions $\frac{2}{7}$ and $\frac{5}{9}$ is

A. $\frac{2 \times 5}{7 + 9}$

B. $\frac{2 + 5}{2 + 9}$

C. $\frac{2 \times 9}{5 \times 7}$

D. $\frac{2 \times 5}{7 \times 9}$

Answer: D

Watch Video Solution

4. Given that 0 < p < q < r < s and p, q, r, s are integers, which of the following is the smallest?

A. $\frac{p+q}{r+s}$

B. $\frac{p+s}{q+r}$

C. $\frac{q+s}{p+r}$

D. $\frac{r+s}{p+q}$

Answer: A

Watch Video Solution

5. The next number of the pattern 60, 30, 15, _____ is

A. 10

B. 5

C. $\frac{15}{4}$

D. $\frac{15}{2}$

Answer: D

Watch Video Solution

6. The decimal expression for 8 rupees 8 paise (in Rupees) is

A. 8.8

B. 8.08

C. 8.008

D. 88

Answer: B

Watch Video Solution

7. Each side of a regular hexagon is 3.5cm long.

The perimeter of the given polygon is

A. 17.5 cm

B. 21 cm

C. 18.3 cm

D. 20 cm

Answer: B

Watch Video Solution

8. $2.5 / 1000$ is equal to

A. 0.025

B. 0.0025

C. 0.25

D. 25000

Answer: B

Watch Video Solution

9. Which of the following has the smallest value?

A. 0.0002

B. $\frac{2}{1000}$

C. $\frac{(0.2)^2}{2}$

D. $\frac{2}{100} / 0.01$

Answer: A

Watch Video Solution

10. Which of the following has the largest value?

A. $\frac{32}{0.05}$

B. $\frac{0.320}{50}$

C. $\frac{3.2}{0.005}$

D. $\frac{3.2}{50}$

Answer: A

Watch Video Solution

11. The largest of the following is

A. 0.0001

B. $\frac{1}{1000}$

C. $(0.100)^2$

D. $\frac{1}{10} / 0.1$

Answer: D

Watch Video Solution

12. A fraction acts as an operator_____

Watch Video Solution

13. Fraction which is reciprocal of $\frac{2}{3}$ is _____.

Watch Video Solution

14. (a) The product of two proper fractions is less than each of the fractions that are multiplied. (b) The product of a proper and an improper fraction is less than the improper fraction and greater than the proper fraction. (c) The product of two impo

Watch Video Solution

15. If the product of two non-zero rational numbers is 1, then they are Additive inverse of each other Multiplicative inverse of each other Reciprocal of each other Both (b) and (c)

Watch Video Solution

16. 5 rupees 5 paise = Rs _____.

Watch Video Solution

17. 45mm = _____ m

Watch Video Solution

18. 2.4×1000 =_____

Watch Video Solution

19. To divide a decimal number by 100, we shift the decimal point in the number to the _____ by _____ places.

Watch Video Solution

20. Reciprocal of an improper fraction is an improper fraction.

Watch Video Solution

21. $2\left(\frac{2}{5}\right)/2\left(\frac{1}{5}\right) = 2$

Watch Video Solution

22. $0.04 / 0.2 = 0.2$

Watch Video Solution

23. $0.2 \times 0.3 = 0.6$

Watch Video Solution

24. Find $\frac{2}{3}$ of 6 using circles with shaded parts.

Watch Video Solution

25. Find the value of

$$\frac{1}{4\left(\frac{2}{7}\right)} + \frac{1}{3\left(\frac{11}{13}\right)} + \frac{1}{\frac{5}{9}}$$

Watch Video Solution

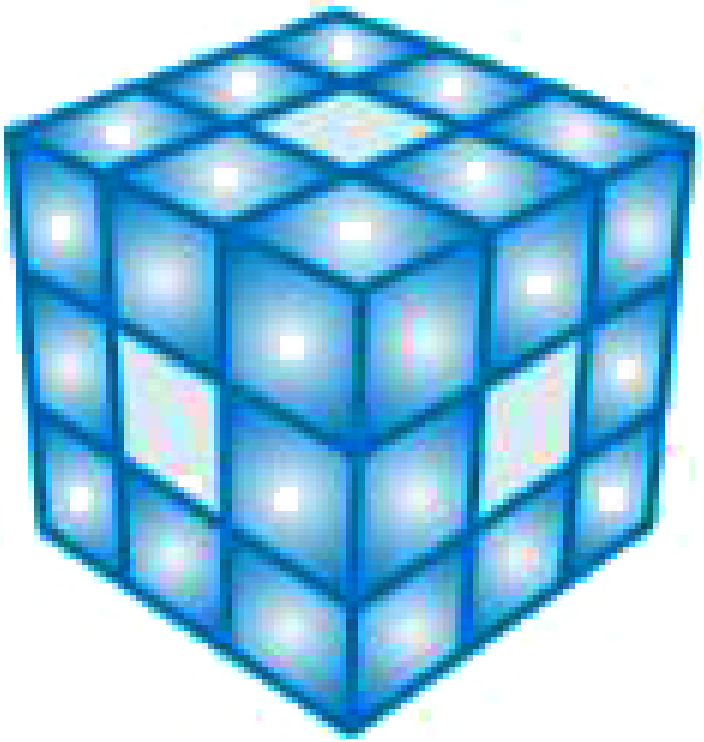
26. There is a 3 × 3 × 3 cube which consists of twenty seven 1 × 1 × 1 cubes (see Fig. 2.3). It is

‘tunneled’ by removing cubes from the coloured squares.

Find: (i) Fraction of number of small cubes removed to the number of small cubes left in given cube.

(ii) Fraction of the number of small cubes removed to the total number of small cubes.

(iii) What part is (ii) of (i)?



Watch Video Solution

27. Ravish 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?

Watch Video Solution

28. How many $\frac{2}{3}$ kg pieces can be cut from a cake of weight 4 kg?

Watch Video Solution

29. Harmeet purchased 3.5kg of potatoes at the rate of Rs 13.75 per kg. How much money should she pay in nearest rupees?

Watch Video Solution

30. Kavita had a piece of rope of length 9.5 m. She needed some small pieces of rope of length 1.9 m each. How many pieces of the required length will she get out of this rope?

Watch Video Solution

31. Three boys earned a total of Rs 235.50. What was the average amount earned per boy?

Watch Video Solution

32. Find the product of

(i) $\frac{1}{2}$ and $\frac{5}{8}$, (ii) $\frac{1}{3}$ and $\frac{7}{5}$, (iii) $\frac{4}{3}$ and $\frac{5}{2}$

Watch Video Solution

33. Observe the 3 products given in Example 32

(i) $\frac{1}{2} \times \frac{5}{8}$

(ii) $\frac{1}{3} \times \frac{7}{5}$

(iii) $\frac{4}{3} \times \frac{5}{2}$

and now give the answers of the following questions.

(i) Does interchanging the fractions in the example, $\frac{1}{2} \times \frac{5}{8}$ affect the answer?

Watch Video Solution

34. Reshma uses $\frac{3}{4}$ m of cloth to stitch a shirt. How many shirts can she make with $2\left(\frac{1}{4}\right)$ m cloth?

Watch Video Solution

35. If the fraction of the frequencies of two notes have a common factor between the numerator and denominator, the two notes are harmonious. Use the graphic below to find

the fraction of frequency of notes D and B.

Frequency Chart

Watch Video Solution

36. Khilona said that we have gone about 120km or $\frac{2}{3}$ of the way to the camp site. So, how much farther do we have to go?

Watch Video Solution

Think And Discuss

1. If $\frac{1}{3}$ of the total distance is 120 km, then how far is the camp site?

Watch Video Solution

2. Explain whether you need to find a common denominator to compare $\frac{2}{3}$ and $-\frac{1}{2}$.

Watch Video Solution

3. Describe the steps you would use to compare 0.235 and 0.239.

Watch Video Solution

4. Give an example of an addition problem that involves connecting an improper fraction in the final step.

Watch Video Solution

5. Explain why $\frac{7}{9} + \frac{7}{9}$ does not equal $\frac{14}{18}$.

Watch Video Solution

6. Name the number of decimal places in the product of 5.625 and 2.75

Watch Video Solution

7. Give an example of two fractions whose product is an integer due to common factors.

Watch Video Solution

8. Explain how you can be sure that a fraction is simplified.

Watch Video Solution

9. Give the sign of a fraction in which the numerator is negative and the denominator is negative.

Watch Video Solution

Exercise

1. $\frac{2}{5} \times 5\left(\frac{1}{5}\right)$ is equal to:

A. $\frac{26}{25}$

B. $\frac{52}{25}$

C. $\frac{2}{5}$

D. 6

Answer: 6

Watch Video Solution

2. $3\left(\frac{3}{4}\right) / \frac{3}{4}$ is equal to:

A. 3

B. 4

C. 5

D. $\frac{45}{16}$

Answer: $\frac{45}{16}$

Watch Video Solution

3. A ribbon of length $5\left(\frac{1}{4}\right)$ m is cut into small pieces each of length $\frac{3}{4}$

Number of pieces will be:

A. 5

B. 6

C. 7

D. 8

Answer: C

Watch Video Solution

4. The ascending arrangement of $\frac{2}{3}, \frac{6}{7}, \frac{13}{21}$ is

A. $\frac{6}{7}, \frac{2}{3}, \frac{13}{21}$

B. $\frac{13}{21}, \frac{2}{3}, \frac{6}{7}$

C. $\frac{6}{7}, \frac{13}{21}, \frac{2}{3}$

D. $\frac{2}{3}, \frac{6}{7}, \frac{13}{21}$

Answer: $\frac{2}{3}, \frac{6}{7}, \frac{13}{21}$

Watch Video Solution

5. Reciprocal of the fraction $\frac{2}{3}$ is:

A. 2

B. 3

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

D. $\frac{3}{2}$

Answer: $\frac{3}{2}$

Watch Video Solution

6. The product of $\frac{11}{13}$ and 4 is:

A. $3\left(\frac{5}{13}\right)$

B. $5\left(\frac{3}{13}\right)$

C. $13\left(\frac{3}{5}\right)$

D. $13\left(\frac{5}{3}\right)$

Answer: $13\left(\frac{5}{3}\right)$

Watch Video Solution

7. The product of 3 and $4\left(\frac{2}{5}\right)$ is:

A. $17\left(\frac{2}{5}\right)$

B. $\frac{24}{5}$

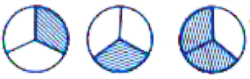
C. $13\left(\frac{1}{5}\right)$

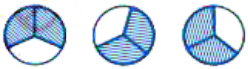
D. $13\left(\frac{5}{3}\right)$

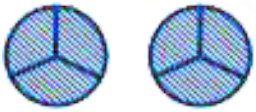
Answer: $13\left(\frac{5}{3}\right)$

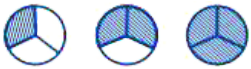
Watch Video Solution

8. Pictorial representation of $3 \times \frac{2}{3}$ is:

A. 

B. 

C. 

D. 

Answer:

Watch Video Solution

9. $\frac{1}{5} / \frac{4}{5}$ equal to:

A. $\frac{4}{5}$

B. $\frac{1}{5}$

C. $\frac{5}{4}$

D. $\frac{1}{4}$

Answer: $\frac{1}{4}$

Watch Video Solution

10. The product of 0.03×0.9 is:

A. 2.7

B. 0.27

C. 0.027

D. 0.0027

Answer: C

Watch Video Solution

11. $\frac{5}{7} / 6$ is equl to:

A. $\frac{30}{7}$

B. $\frac{5}{42}$

C. $\frac{30}{42}$

D. $\frac{6}{7}$

Answer: $\frac{6}{7}$

Watch Video Solution

12. $5\left(\frac{1}{6}\right) / \frac{9}{2}$ is equal to:

A. $\frac{31}{6}$

B. $\frac{1}{27}$

C. $5\left(\frac{1}{27}\right)$

D. $\frac{31}{27}$

Answer: $\frac{31}{27}$

Watch Video Solution

13. Which of the following represents $\frac{1}{3}$ of $\frac{1}{6}$?

A. $\frac{1}{3} + \frac{1}{6}$

B. $\frac{1}{3} - \frac{1}{6}$

C. $\frac{1}{3} \times \frac{1}{6}$

D. $\frac{1}{3} / \frac{1}{6}$

Answer: $\frac{1}{3} / \frac{1}{6}$

Watch Video Solution

14. $\frac{3}{7}$ of $\frac{2}{5}$ is equal to:

A. $\frac{5}{12}$

B. $\frac{5}{35}$

C. $\frac{1}{35}$

D. $\frac{6}{35}$

Answer: $\frac{6}{35}$

Watch Video Solution

15. One packet of biscuits requires $2\left(\frac{1}{2}\right)$ cups of flour and $1\left(\frac{2}{3}\right)$ cups of sugar. Estimated total quantity of both ingredients used in 10 such packets of biscuits will be:

A. less than 30 cups

B. between 30 cups and 40 cups

C. between 40 cups and 50 cups

D. above 50 cups

Answer: above 50 cups

Watch Video Solution

16. The product of 7 and $6\left(\frac{3}{4}\right)$ is:

A. $42\left(\frac{1}{2}\right)$

B. $47\left(\frac{1}{4}\right)$

C. $42\left(\frac{3}{4}\right)$

D. $47\left(\frac{3}{4}\right)$

Answer: $47\left(\frac{3}{4}\right)$

Watch Video Solution

17. On dividing 7 by $\frac{2}{5}$, the result is:

A. $\frac{14}{2}$

B. $\frac{35}{4}$

C. $\frac{14}{5}$

D. $\frac{35}{2}$

Answer: $\frac{35}{2}$

Watch Video Solution

18. $2\left(\frac{2}{3}\right)/5$ is equal to:

A. $\frac{8}{15}$

B. $\frac{40}{3}$

C. $\frac{40}{5}$

D. $\frac{8}{3}$

Answer: $\frac{8}{3}$

Watch Video Solution

19. $\frac{4}{5}$ of 5 kg apples were used on Monday. The next day $\frac{1}{3}$ of what was left was used. Weight (in kg) of apples left now is:

A. $\frac{2}{7}$

B. $\frac{1}{14}$

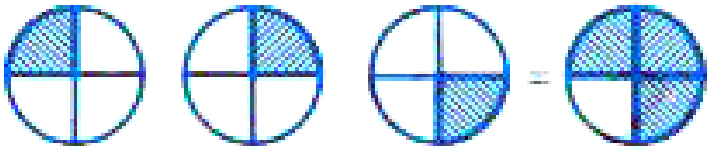
C. $\frac{2}{3}$

D. $\frac{4}{21}$

Answer: C

Watch Video Solution

20. The picture



interprets:

A. $\frac{1}{4} / 3$

B. $3 \times \frac{1}{4}$

C. $\frac{3}{4} \times 3$

D. $3 / \frac{1}{4}$

Answer: $3 \times \frac{1}{4}$

Watch Video Solution

21. Rani ate $\frac{2}{7}$ part of a cake while her brother Ravi ate $\frac{4}{5}$ of the remaining. Part of the cake left is _____

Watch Video Solution

22. The reciprocal of $\frac{3}{7}$ is _____

Watch Video Solution

23. $\frac{2}{3}$ of 27 is .....

Watch Video Solution

24. $\frac{4}{5}$ of 45 is _____

Watch Video Solution

25. $4 \times 6\left(\frac{1}{3}\right)$ is equal to _____

Watch Video Solution

26. $\frac{1}{2}$ of $4\left(\frac{2}{7}\right)$ is _____

Watch Video Solution

27. $\frac{1}{9}$ of $\frac{6}{5}$ is _____

Watch Video Solution

28. The lowest form of the product $2\left(\frac{3}{7}\right) \times \frac{7}{9}$ is _____

Watch Video Solution

29. $\frac{4}{5} / 4$ is equal to_____

Watch Video Solution

30. $\frac{2}{5}$ of 25 is _____

Watch Video Solution

31. $\frac{1}{5} / \frac{5}{6} = \frac{1}{5}$ ------ $\frac{6}{5}$

Watch Video Solution

32. $3.2 \times 10 =$ _____

Watch Video Solution

33. $25.4 \times 1000 =$ _____

Watch Video Solution

34. $93.5 \times 100 =$ _____

Watch Video Solution

35. $4.7 / 10 =$ _____

Watch Video Solution

36. $4.7 / 100 =$ _____

Watch Video Solution

37. $4.7 / 10000 =$ _____

Watch Video Solution

38. The product of two proper fractions is _____ than each of the fractions that are multiplied.

Watch Video Solution

39. While dividing a fraction by another fraction, we _____ the first fraction by the _____ of the other fraction.

Watch Video Solution

40. $8.4 / \quad \_\_\_\_\_ = 2.1$

Watch Video Solution

41. $52.7 / \quad \_\_\_\_\_ = 0.527$

Watch Video Solution

42. $0.5 \_\_\_\_\_ 0.7 = 0.35$

Watch Video Solution

43. $2 \_\_\_\_ \frac{5}{3} = \frac{10}{3}$

Watch Video Solution

44. $2.001 / 0.003$ = _____

Watch Video Solution

45. The reciprocal of a proper fraction is a proper fraction.

Watch Video Solution

46. The reciprocal of an improper fraction is an improper fraction

Watch Video Solution

47. Product of two fractions = $\frac{\text{Product of their denominators}}{\text{Product of their numerators}}$

Watch Video Solution

48. The product of two improper fractions is less than both the fractions

 Watch Video Solution

49. A reciprocal of a fraction is obtained by inverting it upside down.

 Watch Video Solution

50. To divide a decimal number by 1000, we move the decimal point in the number to the right by three places. (True/False)

51. To divide a decimal number by 100, we move the decimal point in the number to the left by two places. (True/False)

52. 1 is the only number which is its own reciprocal.

Watch Video Solution

53. $\frac{2}{3}$ of 8 is same as $\frac{2}{3} / 8$

Watch Video Solution

54. The reciprocal of $\frac{4}{7}$ is $\frac{4}{7}$

Watch Video Solution

55. If 5 is added to both the numerator and the denominator of the fraction $\frac{5}{9}$. Will the value of the fraction increase or decrease?

Watch Video Solution

56. What happens to the value of a fraction if the denominator of the fraction is decreased while numerator is kept unchanged?

Watch Video Solution

57. Which letter comes $\frac{2}{5}$ of the way among A and J?

Watch Video Solution

58. If $\frac{2}{3}$ of a number is 10, then what is 1.75 times of that number?

Watch Video Solution

59. In a class of 40 students, $\frac{1}{5}$ of the total number of students like to eat rice only, $\frac{2}{5}$ of the total number of students like to eat chapati only and the remaining students like to eat both. What fraction of the total number of students like to eat both?

Watch Video Solution

60. Renu completed $\frac{2}{3}$ part of her home work in 2 hours. How much part of her home work

had she completed in $1\left(\frac{1}{4}\right)$ hours?

Watch Video Solution

61. Reemu read $\frac{1}{5}$ th pages of a book. If she reads further 40 pages, she would have read $\frac{7}{10}$ th pages of the book. How many pages are left to be read?

Watch Video Solution

62. Write the number in the box such that [ ] such that $\frac{3}{7} \times [] = \frac{15}{98}$

Watch Video Solution

63. Will the quotient $7\left(\frac{1}{6}\right) / 3\left(\frac{2}{3}\right)$ be a fraction greater than 1.5 or less than 1.5?

Watch Video Solution

64. Is $\frac{13}{17}$ greater than 0.82 ?

Watch Video Solution

65. Health: The directions for a pain reliever recommend that an adult of 60 kg and over take 4 tablets every 4 hours as needed, and an adult who weighs between 40 and 50 kg take only $2\left(\frac{1}{2}\right)$ tablets every 4 hours as needed. Each tablet weighs $\frac{4}{25}$ gram.

(a) If a 72 kg adult takes 4 tablets, how many grams of pain reliever is he or she receivings?

(b) How many grams of pain reliever is the

recommended dose for an adult weighing 46 kg?

Watch Video Solution

66. Animals: The label on a bottle of pet vitamins lists dosage guidelines.

What dosage would you give to each of these animals?

(a) a 18 kg adult dog

(b) a 6 kg cat

(c) a 18 kg pregnant dog

Do Good Pet Vitamins

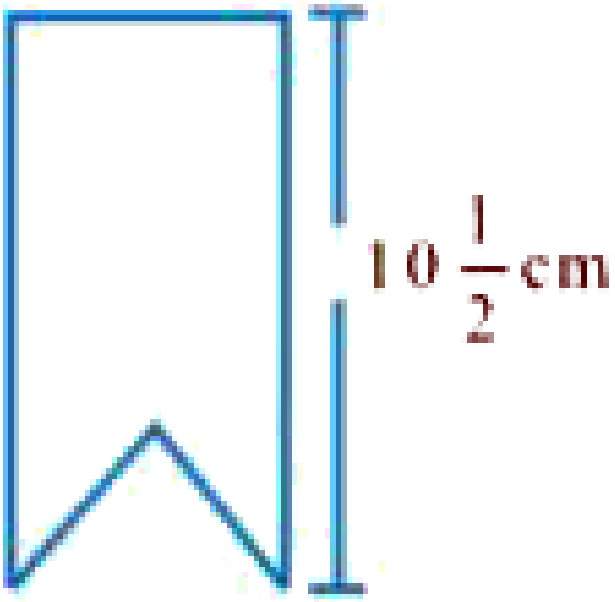
- Adult dogs:
  $\frac{1}{2}$ tsp (tea spoon full) per 9kg body weight
- Puppies, pregnant dogs, or nursing dogs:
  $\frac{1}{2}$ tsp per 4.5kg body weight
- Cats:
  $\frac{1}{4}$ tsp per 1kg body weight

Watch Video Solution

67. How many $\frac{1}{16}$ kg boxes of chocolates can be made with $1\left(\frac{1}{2}\right)$ kg chocolates?

Watch Video Solution

68. Anvi is making bookmarker like the one shown in figure. How many bookmarker can she make from a 21 m long ribbon?



Watch Video Solution

69. A rule for finding the approximate length of diagonal of a square is to multiply the length of a side of the square by 1.414. Find the length of the diagonal when

(a) The length of a side of the square is 8.3 cm.

(b) The length of a side of the square is exactly 7.875 cm.

Watch Video Solution

70. The largest square that can be drawn in a circle has a side whose length is 0.707 times

the diameter of the circle. By this rule, find the length of the side of such a square when the diameter of the circle is

(a) 14.35 cm (b) 8.63 cm

Watch Video Solution

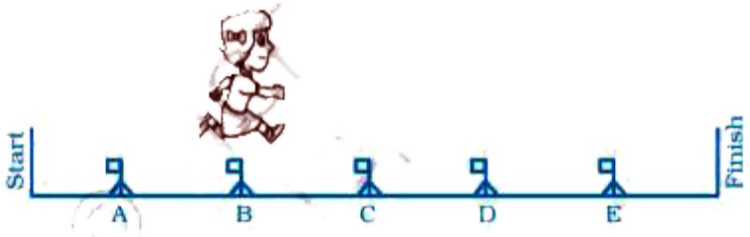
71. To find the distance around a circular disc, multiply the diameter of the disc by 3.14. What is the distance around the disc when the diameter is 18.7 cm?

Watch Video Solution

72. What is the cost of 27.5 m of cloth at Rs 53.50 per metre?

Watch Video Solution

73. In a hurdle race, Nidhi is over hurdle B and $\frac{2}{6}$ of the way through the race, as shown in Fig. 2.7.



Then, answer the following:

(a) Where will Nidhi be, when she is $\frac{4}{6}$ of the way through the race?

(b) Where will Nidhi be when she is $\frac{5}{6}$ of the way through the race?

(c) Give two fractions to tell what part of the race Nidhi has finished when she is over hurdle C.

Watch Video Solution

74. Diameter of Earth is 12756000m. In 1996, a new planet was discovered whose diameter is $\frac{5}{86}$ of the diameter of Earth. Find the diameter of this planet in km.

Watch Video Solution

75. What is the product of $\frac{5}{129}$ and its reciprocal ?

Watch Video Solution

76. Simplify: $\dfrac{2\left(\frac{1}{2}\right)+\frac{1}{5}}{2\left(\frac{1}{2}\right)/\frac{1}{5}}$

Watch Video Solution

77. Simplify: $\dfrac{\frac{1}{4}+\frac{1}{5}}{1-\frac{3}{8}\times\frac{3}{5}}$

Watch Video Solution

78. Divide $\dfrac{3}{10}$ by $\left(\dfrac{1}{4}\ \text{of}\ \dfrac{3}{5}\right)$

Watch Video Solution

79. $\frac{1}{8}$ of a number equals $\frac{2}{5} / \frac{1}{10}$. What is the number?

Watch Video Solution

80. Heena's father paid an electric bill of Rs 385.70 out of a 500 rupee note. How much change should he have received?

Watch Video Solution

81. The normal body temperature is 98.6°F. When Savitri was ill her temperature rose to 103.1°F. How many degrees above normal was that?

Watch Video Solution

82. Meteorology: One measure of average global temperature shows how each year varies from a base measure. The table shows results for several years.

Year	1958	1964	1965	1978	2002
Difference from Base	0.10°C	−0.17°C	−0.10°C	$\left(\frac{1}{50}\right)^{\circ}$C	0.54°C

See the table and answer the following:

(a) Order the five years from coldest to warmest.

(b) In 1946, the average temperature varied by −0.030C from the base measure. Between which two years should 1946 fall when the years are ordered from coldest to warmest?

Watch Video Solution

83. In her science class, Jyoti learned that the atomic weight of Helium is 4.0030, of Hydrogen is 1.0080, and of Oxygen is 16.0000. Find the difference between the atomic weights of:

(a) Oxygen and Hydrogen

(b) Oxygen and Helium

(c) Helium and Hydrogen

Watch Video Solution

84. Measurement made in science lab must be as accurate as possible. Ravi measured the length of an iron rod and said it was 19.34 cm long, Kamal said 19.25 cm, and Tabish said 19.27 cm. The correct length was 19.33 cm. How much of error was made by each of the boys?

 Watch Video Solution

85. When 0,02964 is divided by 0.004, what will be the quotient?

Watch Video Solution

86. What number divided by 520 gives the same quotient as 85 divided by 0.625?

Watch Video Solution

87. A floor is 4.5 m long and 3.6 m wide. A 6 cm square tile costs Rs 23.25. What will be the cost to cover the floor with these tiles?

Watch Video Solution

88. Sunita and Rehana want to make dresses for their dolls. Sunita has $\frac{3}{4}$ m of cloth, and she gave $\frac{1}{3}$ of it to Rehana. How much did Rehana have?

Watch Video Solution

89. Sunita and Rehana want to make dresses for their dolls. Sunita has $\frac{3}{4}$ m of cloth, and she gave $\frac{1}{3}$ of it to Rehana. How much did Rehana have?

Watch Video Solution

90. How much cloth will be used in making 6 shirts, if each required $2\left(\frac{1}{4}\right)$ m of cloth, allowing $\frac{1}{8}$ m for waste in cutting and finishing in each shirt?

Watch Video Solution

91. A picture hall has seats for 820 persons. At a recent film show, one usher guessed it was $\frac{3}{4}$ full, another that it was $\frac{2}{3}$ full. The ticket

office reported 648 sales. Which usher (first or second) made the better guess?

Watch Video Solution

92. For the celebrating children's students of Class VII bought sweets for Rs 740.25 and cold drink for Rs 70. If 35 students contributed equally what amount was contributed by each student?

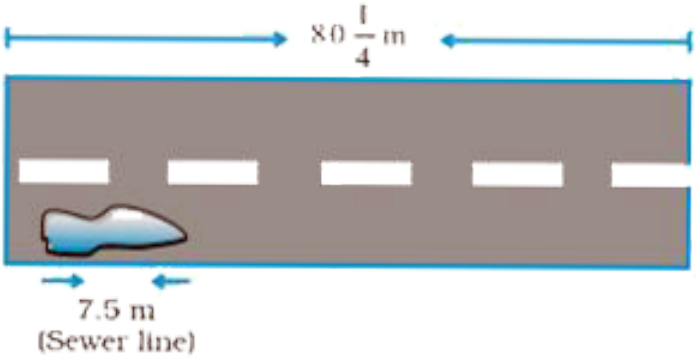
Watch Video Solution

93. The time taken by Rohan in five different races to run a distance of 500 m was 3.20 minutes, 3.37 minutes, 3.29 minutes, 3.17 minutes and 3.32 minutes. Find the average time taken by him in the races.

Watch Video Solution

94. A public sewer line is being installed along $80\left(\frac{1}{4}\right)$ m of road. The supervisor says that the labourers will be able to complete 7.5 m in one day. How long will the project take to

complete?



Watch Video Solution

95. The weight of an object on moon is $\frac{1}{6}$ its weight on Earth. If an object weighs $5\left(\frac{3}{5}\right)$ kg on Earth, how much would it weigh on the moon?

Watch Video Solution

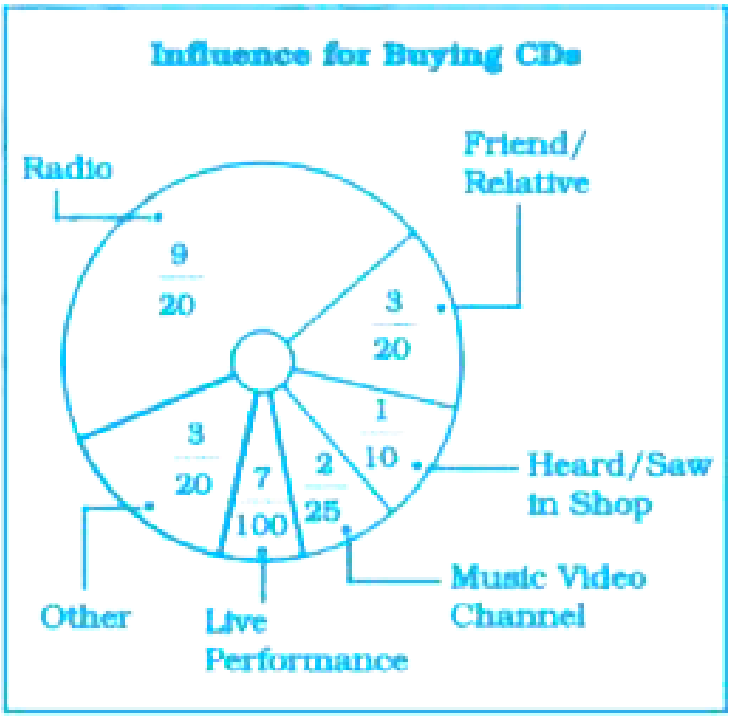
96. In a survey, 200 students were asked what influenced them most to buy their latest CD. The results are shown in the circle graph. ,

(a) How many students said radio influenced them most?

(b) How many more students were influenced by radio than by a music video channel?

(c) How many said a friend or relative influenced them or they heard the CD in a

shop?



Watch Video Solution

97. In the morning, a milkman filled $5\left(\frac{1}{2}\right)$ L of milk in his can. He sold to Renu, Kamla and

Renuka $\frac{3}{4}$ L each, to Shadma he sold $\frac{7}{8}$ L and to Jassi he gave $1\left(\frac{1}{2}\right)$ L. How much milk is left in the can?

Watch Video Solution

98. Anuradha can do a piece of work in 6 hours. What part of the work can she do in 1 hour, in 5 hours, in 6 hours?

Watch Video Solution

99. What portion of a 'saree' can Rehana paint in 1 hour if it requires 5 hours to paint the whole saree?

Watch Video Solution

100. Rama has $6\left(\frac{1}{4}\right)$ kg of cotton wool for making pillows. If one pillow takes $1\left(\frac{1}{4}\right)$ kg, how many pillows can she make?

Watch Video Solution

101. It takes $2\left(\frac{1}{3}\right)$ m of cloth to make a shirt. How many shirts can Radhika make from a piece of cloth $9\left(\frac{1}{3}\right)$ m long?

Watch Video Solution

102. Ravi can walk $3\left(\frac{1}{3}\right)$ km in one hour. How long will it take him to walk to his office which is 10 km from his home?

Watch Video Solution

103. Raj travels 360 km on three fifths of his petrol tank. How far would he travel at the same rate with a full tank of petrol?

Watch Video Solution

104. Kajol has Rs 75. This is $\frac{3}{8}$ of the amount she earned. How much did she earn?

Watch Video Solution

105. It takes 17 full specific type of trees to make one tonne of paper. If there are 221 such trees in a forest, then what fraction of forest will be used to make 5 tonnes of paper.

Watch Video Solution

106. Simplify and write the result in decimal form :

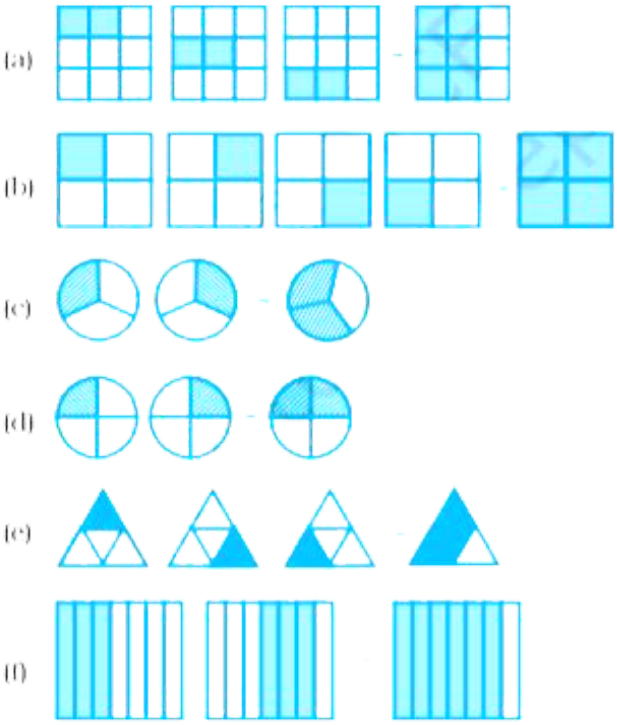
$$\left(1/\frac{2}{9}\right)+\left(1/3\left(\frac{1}{5}\right)\right)+\left(1/2\left(\frac{2}{3}\right)\right)$$

Watch Video Solution

107. Some pictures (a) to (f) are given below.

Tell which of them show:

(i) $2 \times \frac{1}{4}$, (ii) $2 \times \frac{3}{7}$, (iii) $2 \times \frac{1}{3}$, (iv) $\frac{1}{4} \times 4$, (v) $3 \times \frac{2}{9}$, (vi) $\frac{1}{4} \times 3$



Watch Video Solution

108. Evaluate : $(0.3) \times (0.3) - (0.2) \times (0.2)$

Watch Video Solution

109. Evaluate: $\frac{0.6}{0.3} + \frac{0.16}{0.4}$

Watch Video Solution

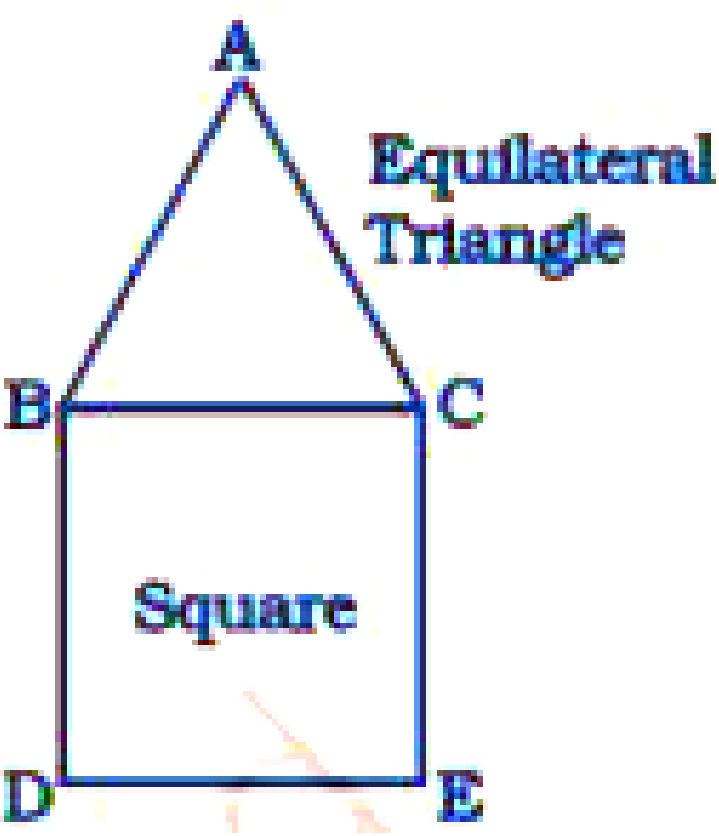
110. Find the value of

$$\frac{(0.2 \times 0.14) + (0.5 \times 0.91)}{0.1 \times 0.2}$$

Watch Video Solution

111. A square and an equilateral triangle have a side in common. If side of triangle is $\frac{4}{3}$ cm long, find the perimeter of figure provided

below.



Watch Video Solution

112. Rita has bought a carpet of size $4m \times 6\left(\frac{2}{3}\right)$ m . But her room size is $3\left(\frac{1}{3}\right)m \times 5\left(\frac{1}{3}\right)m$. What fraction of area should be cut off to fit wall to wall carpet into the room?

Watch Video Solution

113. Family photograph has length $14\frac{2}{5}cm$ and breadth $10\frac{2}{5}cm$. It has border of uniform

will $2\frac{3}{5}cm$. Find the area of the framed photograph

Watch Video Solution

114. Cost of a burger is Rs $20\left(\frac{3}{4}\right)$ and of Macpuff is Rs $15\left(\frac{1}{2}\right)$. Find the cost of 4 burgers and 14 macpuffs.

Watch Video Solution

115. A hill, $101\left(\frac{1}{3}\right)$ m in height, has $\frac{1}{4}$ th of its height under water. What is the height of the hill visible above the water?

Watch Video Solution

116. Sports: Reaction time measures how quickly a runner reacts to the starter pistol. In the 100 m dash at the 2004 Olympic Games, Lauryn Williams had a reaction time of 0.214 second. Her total race time, including reaction

time, was 11.03 seconds. How long did it take her to run the actual distance?

Watch Video Solution

117. State whether the answer is greater than 1 or less than 1. Put a '> or <' mark in appropriate box.

Questions	Greater than 1	Less than 1
$\frac{2}{3} \div \frac{1}{2}$		
$\frac{2}{3} \div \frac{2}{1}$		
$6 \div \frac{1}{4}$		
$\frac{1}{5} \div \frac{1}{2}$		
$4\frac{1}{3} \div 3\frac{1}{2}$		
$\frac{2}{3} \times 8\frac{1}{2}$		

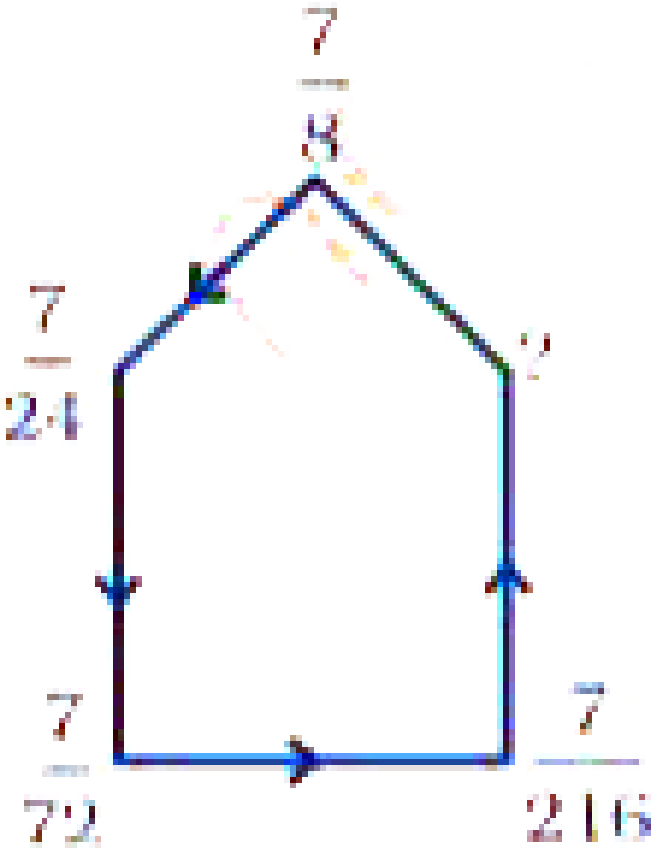
Watch Video Solution

118. There are four containers that are arranged in the ascending order of their heights. If the height of the smallest container given in the figure is expressed as $\frac{7}{25}x = 10.5$ cm.

Find the height of the largest container.

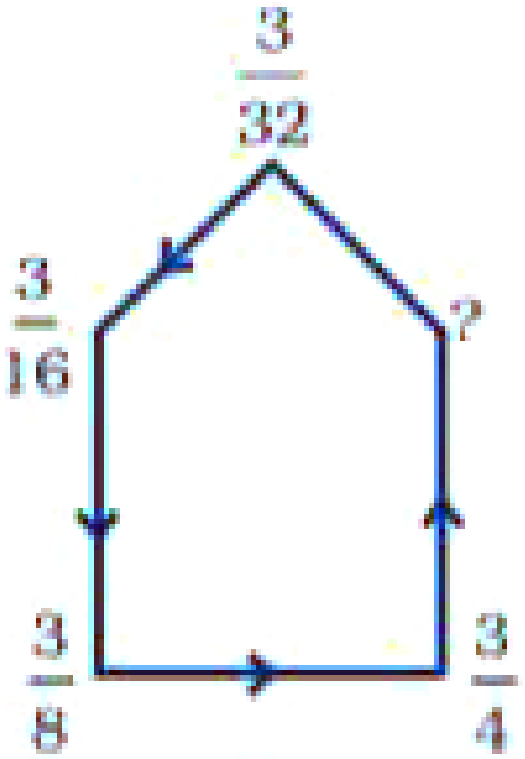
Watch Video Solution

119. replace '?' with appropriate fraction.



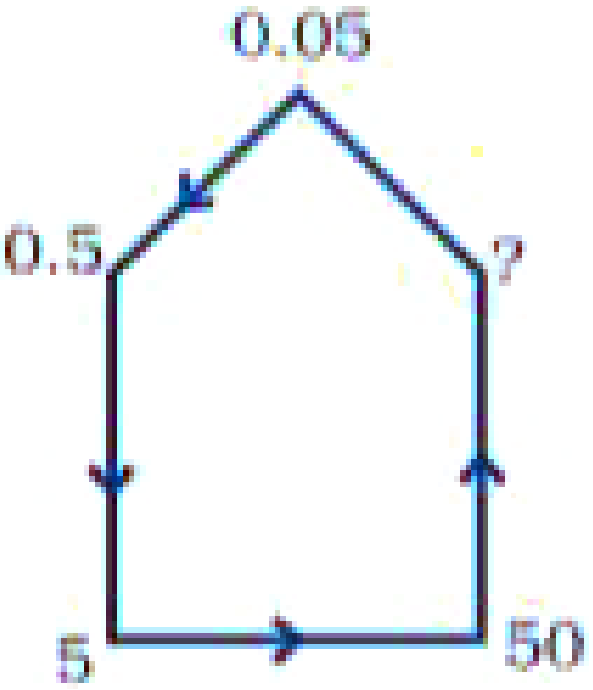
Watch Video Solution

120. replace '?' with appropriate fraction.



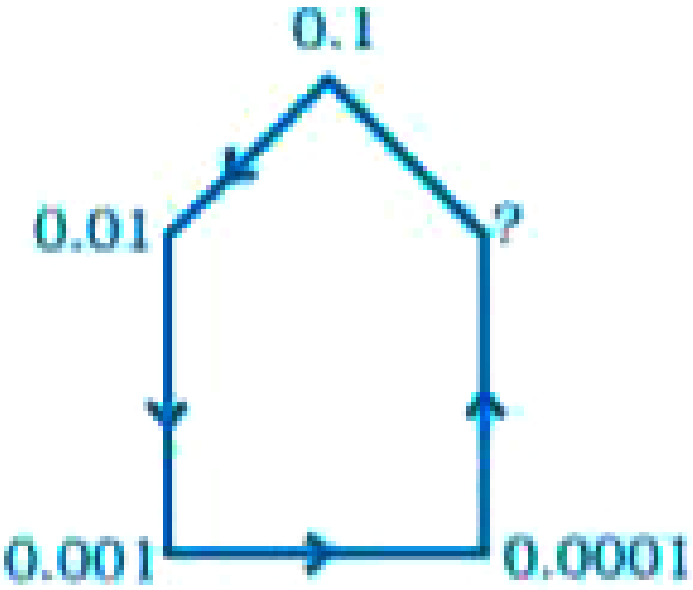
Watch Video Solution

121. replace '?' with appropriate fraction.



Watch Video Solution

122. replace '?' with appropriate fraction.



Watch Video Solution

Exercise Find The Error

1. A student compared -0.25 and –0.3. He wrote, “Since 0.3 is greater than 0.25, –0.3 is greater that –0.25”. What was the student’s error?

Watch Video Solution

2. A student multiplied two mixed fractions in the following manner: $2\left(\frac{4}{7}\right) \times 3\left(\frac{1}{4}\right) = 6\left(\frac{1}{7}\right)$. What error the student has done?

Watch Video Solution

3. In the pattern $\frac{1}{3}+\frac{1}{4}+\frac{1}{5}$ +..... which fraction makes the sum greater than 1 (first time)? Explain.

Watch Video Solution