



MATHS

BOOKS - NCERT EXEMPLAR

FRACTIONS AND DECIMALS

Solved Example

1. Which of the following fractions is the smallest?

A. $\frac{11}{7}$

B. $\frac{11}{10}$

C. $\frac{11}{6}$

D. $\frac{11}{9}$

Answer: C



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2. 0.7625 lies between

A. 0.77 and 0.78

B. 0.76 and 0.761

C. 0.76 and 0.763

D. 0.7 and 0.76

Answer: C



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3. Fill in the blanks so that the statement is true: Decimal 8.125 is equal to the fraction _____.



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4. Fill in the blanks so that the statement is true: $6.45 - 3.78 = \underline{\hspace{2cm}}$



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5. State true or false:

The fraction $14\frac{2}{5}$ is equal to 14.2.



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6. Fill in the blanks using $>$ or $<$:

$$\frac{8}{45} \quad - \quad \frac{16}{89}$$



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7. Express $\frac{12}{25}$ as a decimal.



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8. Convert 5809g to kg.



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9. Round off 87.952 to tenths place.



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10. Add the fractions $5\frac{3}{8}$ and $\frac{5}{16}$

A. $5\frac{11}{16}$

B. $5\frac{9}{16}$

C. $4\frac{11}{16}$

D. $5\frac{15}{16}$

Answer: A



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11. What should be added to 37.28 to obtain 46.8?



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12. Arrange the following in ascending order.

2.2, 2.023, 2.0226, 22.1, 20.42



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13. Gorang purchased 2kg 280g apples, 3kg 375g bananas, 225g grapes and 5kg 385g oranges. Find the total weight of the fruits purchased by Gorang in kg.



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14. What is wrong in the following?

$$\frac{7}{4} + \frac{5}{2} = \frac{7}{4} + \frac{5}{2} = \frac{12}{6} = 2$$



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Exercise Choose The Correct Answer

1. The fraction which is not equal to is

A. $\frac{40}{50}$

B. $\frac{12}{15}$

C. $\frac{16}{20}$

D. $\frac{9}{15}$

Answer: D





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2. The two consecutive integers between which the fraction $\frac{5}{7}$ lies are

A. 5 and 6

B. 0 and 1

C. 5 and 7

D. 6 and 7

Answer: B



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3. When $\frac{1}{4}$ is written with denominator as 12, its numerator is

- A. 3
- B. 8
- C. 24
- D. 12

Answer:



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4. Which of the following is not in the lowest form?

A. $\frac{7}{5}$

B. $\frac{15}{20}$

C. $\frac{13}{33}$

D. $\frac{27}{28}$

Answer:



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5. If $\frac{5}{8} = \frac{20}{p}$, then value of p is

A. 23

B. 2

C. 32

D. 16

Answer: C



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6. Which of the following is not equal to the others?

A. $\frac{6}{8}$

B. $\frac{12}{16}$

C. $\frac{15}{25}$

D. $\frac{18}{24}$

Answer: C



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7. Which of the following fractions is the greatest?

A. $\frac{5}{7}$

B. $\frac{5}{6}$

C. $\frac{5}{9}$

D. $\frac{5}{8}$

Answer:



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8. Which of the following fractions is the smallest?

A. $\frac{7}{8}$

B. $\frac{9}{8}$

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

D. $\frac{5}{8}$

Answer: C



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9. Sum of $\frac{4}{17}$ and $\frac{5}{17}$ is

A. $\frac{19}{17}$

B. $\frac{11}{17}$

C. $\frac{19}{34}$

D. $\frac{2}{17}$

Answer:



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10. On subtracting $\frac{5}{9}$ from $\frac{19}{9}$, the result is

A. $\frac{24}{9}$

B. $\frac{14}{9}$

C. $\frac{14}{18}$

D. $\frac{14}{0}$

Answer: B



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11. 0.7499 lies between

A. 0.7 and 0.74

B. 0.749 and 0.75

C. 0.75 and 0.79

D. 0.74992 and 0.75

Answer:



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12. 0.023 lies between

A. 0.2 and 0.3

B. 0.03 and 0.029

C. 0.02 and 0.03

D. 0.026 and 0.024

Answer:



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13. $\frac{11}{7}$ can be expressed in the form

A. $7\frac{1}{4}$

B. $4\frac{1}{7}$

C. $1\frac{4}{7}$

D. $11\frac{1}{7}$

Answer: B



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14. The mixed fraction $5\frac{4}{7}$ can be expressed as

A. $\frac{33}{7}$

B. $\frac{39}{7}$

C. $\frac{33}{4}$

D. $\frac{39}{4}$

Answer: B



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15. $0.07 + 0.008$ is equal to

A. 0.15

B. 0.015

C. 0.078

D. 0.78

Answer:



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16. Which of the following decimals is the greatest?

A. 0.182

B. 0.0925

C. 0.29

D. 0.038

Answer: C



17. Which of the following decimals is the smallest?

A. 0.27

B. 1.5

C. 0.082

D. 0.103

Answer:



18. 13.572 correct to the tenths place is

A. 10

B. 13.57

C. 14.5

D. 13.6

Answer:



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19. $15.8 - 6.73$ is equal to

A. 8.07

B. 9.07

C. 9.13

D. 9.25

Answer:



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20. The decimal 0.238 is equal to the fraction

A. $\frac{119}{500}$

B. $\frac{238}{25}$

C. $\frac{119}{25}$

D. $\frac{119}{50}$

Answer: A



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Exercise Fill In The Blanks

1. A number representing a part of a _____ is called a fraction.



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2. A fraction with denominator greater than the numerator is called a _____ fraction.



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3. Fractions with the same denominator are called _____ fractions.

A. Unlike

B. Like

C. Lowest

D. None of the above

Answer: B



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4. $13\frac{5}{18}$ is a ____ fraction.



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5. $\frac{18}{5}$ is an ____ fraction.



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6. $\frac{7}{19}$ is a ____ fraction.



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7. $\frac{6}{11}$ and $\frac{6}{13}$ are _____ proper fractions.



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8. The fraction $\frac{6}{15}$ in simplest form is _____



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9. The fraction $\frac{17}{34}$ in simplest form is _____.



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10. $\frac{18}{135}$ and $\frac{90}{675}$ are proper, unlike and _____ fractions.



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11. $8\frac{2}{7}$ is equal to the improper fraction _____.



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12. $\frac{87}{7}$ is equal to the mixed fraction _____.



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13. $9 + \frac{2}{10} + \frac{6}{100}$ equal to the decimal number _____.



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14. Decimal 16.25 is equal to the fraction _____



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15. Fractions $\frac{7}{25}$ is equal to the decimal number _____.



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16. $\frac{17}{9} + \frac{41}{9} =$ _____



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17. $\frac{67}{14} - \frac{24}{14} =$ _____



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18. $\frac{17}{2} + 3\frac{1}{2} = \underline{\hspace{2cm}}$.



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19. add $4.55 + 9.73 = \underline{\hspace{2cm}}$.



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20. $8.76 - 2.68 = \underline{\hspace{2cm}}$.



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$$21. 4.55 + 9.73 = \underline{\hspace{2cm}}.$$



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$$22. 8.76 - 2.68 = \underline{\hspace{2cm}}$$



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23. The value of 50 coins of 50 paise = Rs

 .



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24. 3 Hundredths + 3 tenths = _____



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Exercise True Or False

1. Fractions with same numerator are called like fractions. (True/False)



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2. Fraction $\frac{18}{39}$ is in its lowest form.



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3. Fractions $\frac{15}{39}$ and $\frac{45}{117}$ are equivalent fractions.



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4. The sum of two fractions is always a fraction.



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5. The result obtained by subtracting a fraction from another fraction is necessarily a fraction,



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6. State True or False ; If a whole or an object is divided into a number of equal parts, then each part represents a fraction.



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7. The place value of a digit at the tenths place is 10 times the same digit at the ones place.
(True/False)



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8. State True or False

The place value of a digit at the hundredths place is $\frac{1}{10}$ times the same digit at the tenths place.



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9. State True or False ;The decimal 3.725 is equal to 3.72 correct to two decimal places.



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10. In the decimal form, fraction $\frac{25}{8} = 3.125$.

[True/False]



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11. State True or False ;The decimal

$$23.2 = 23\frac{2}{5}$$



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12. The fraction represented by the shaded

portion in the adjoining figure is $\frac{3}{8}$



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13. The fraction represented by the unshaded portion in the adjoining figure is $\frac{5}{9}$



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14. $\frac{25}{19} + \frac{6}{19} = \frac{31}{38}$



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15. $\frac{8}{18} - \frac{8}{15} = \frac{8}{3}$



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16. $\frac{7}{12} + \frac{11}{12} = \frac{3}{2}$



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17. Add and tell whether it is true or false

$$3.03 + 0.016 = 3.019$$



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18. State True or False : $42.28 - 3.19 = 39.09$



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19. Is given fraction is true or false $\frac{16}{25} > \frac{13}{25}$



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20. $19.25 < 19.053$ (True/False)



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21. $13.730 = 13.73$ (True/False)



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Exercise Fill In The Blanks Using Gt Lt Or

1. $\frac{11}{16} + \frac{14}{15}$



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2. $\frac{8}{7} + \frac{9}{14}$



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3. $\frac{12}{75} \times \frac{32}{200}$



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4. Fill in the blanks using '>', '<' or '=' :

3.25.... . 3.4



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5. $\frac{18}{15} \times 1.2$



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6. Fill in the blanks using $>$, $<$ ' or $=$:

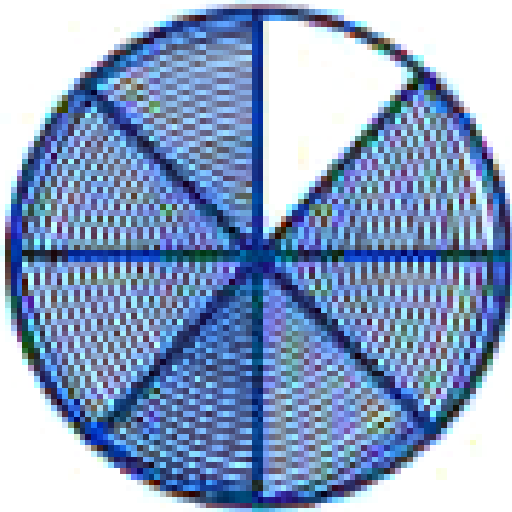
6.25 $\frac{25}{4}$



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Exercise

1. Write the fraction represented by the shaded portion of the adjoining figure:



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

each person?



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3. Arrange 12.142, 12.124, 12.104, 12.401 and 12.214 in ascending order.



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4. Write the largest four digit decimal number less than 1 using the digits 1, 5, 3 and 8 once.



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5. Using the digits 2, 4, 5 and 3 once, write the smallest four digit decimal number.



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



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



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



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9. Express 0.041 as a fraction.



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10. Express 6.03 as a mixed fraction.



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11. Convert 5201 g to kg.



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



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



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



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



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



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



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



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



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20. Round off 20.83 to nearest tenths.



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21. Round off 75.195 to nearest hundredths.



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22. Round off 27.981 to nearest tenths.



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



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



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25. Subtract $\frac{1}{6}$ from $\frac{1}{2}$.



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



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



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



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29. 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.



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30. 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.





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31. Grip size of a tennis racquet is $11\frac{9}{80}$ cm.

Express the size as an improper fraction.



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



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33. 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?



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34. The food we eat remains in the stomach for a maximum of 4 hours. For what fraction of

a day, does it remain there?



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35. What should be added to 25.5 to get 50?



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36. Alok purchased 1kg 200g potatoes, 250g dhania, 5kg 300g onion, 500g palak and 2kg 600g tomatoes. Find the total weight of his purchases in kilograms.



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37. Arrange in ascending order:

0.011, 1.001, 0.101, 0.110



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38. Add the following: 20.02 and 2.002



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39. 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:

the quantity of diesel saved to the quantity of petrol saved.



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40. 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:

the quantity of diesel saved to the quantity of CNG saved.



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41. Anupam earns Rs. 20000 per month and spends Rs. 3500 on food expenses. What fraction of earnings does Anupam spend on food?



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42. 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?



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



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44. When Sunita weighed herself on Monday, she found that she had gained $5kg$. Earlier her weight was $46 kg$. What was her weight on Monday?



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45. 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?



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46. 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?



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47. 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?



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48. 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?



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49. 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?



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50. 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?



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51. Which one is greater?



1 metre 40 centimetres + 60 centimetres or 2.6 metres.


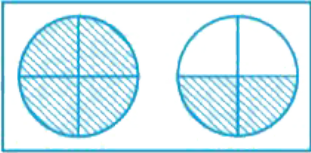



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52. Match the fractions of Column I with the shaded or marked portion of figures of

Column II:

Column I	Column II
(i) $\frac{6}{4}$	(A) 
(ii) $\frac{6}{10}$	(B) 

(iii) $\frac{6}{6}$	(C) 
(iv) $\frac{6}{16}$	(D) 
	(E) 



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53. Find the fraction that represents the number of natural numbers to total numbers

in the collection 0, 1, 2, 3, 4, 5. What fraction will it be for whole numbers?



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54. Write the fraction representing the total number of natural numbers in the collection of numbers -3, -2, -1, 0, 1, 2, 3. What fraction will it be for whole numbers?



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



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56. What fraction of a straight angle is a right angle?



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57. Put the right card in the right bag.

Cards

(i) $\frac{3}{7}$

(ii) $\frac{4}{4}$

(iii) $\frac{9}{8}$

(iv) $\frac{8}{9}$

(v) $\frac{5}{6}$

(vi) $\frac{6}{11}$

(vii) $\frac{18}{18}$

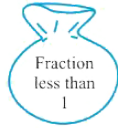
(viii) $\frac{19}{25}$

(ix) $\frac{2}{3}$

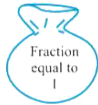
(x) $\frac{13}{17}$

Bags

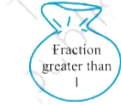
Bag I



Bag II



Bag III



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Activity

1. Activity: Find the number of boys and girls in your school and write:

(i) The fraction representing boys among the total students

(ii) The fraction representing girls among the total students

(iii) check that the sum of two fractions in (i) and (ii) is 1.



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