

Fractions and Decimals

Question 1.

What is $\frac{1}{7}$ of 49 litres?

- (a) 11
- (b) 51
- (c) 71
- (d) 61

Answer: (c) 71

Question 2.

Find $\frac{2}{7} \times 3$.

- (a) $\frac{5}{7}$
- (b) $\frac{6}{7}$
- (c) $\frac{1}{7}$
- (d) none of these

Answer: (b) $\frac{6}{7}$

Numerator is multiplied by numerator.

Question 3.

If $43m = 0.086$ then m has the value

- (a) 0.002
- (b) 0.02
- (c) 2
- (d) 0.2

Answer: (a) 0.002

Question 4.

Write the place value of 2 in the following decimal numbers : 2.56

- (a) 5
- (b) .06
- (c) 2
- (d) None of these

Answer: (c) 2

As 2 is at ones place.

Question 5.

$0.01 \times 0.01 =$ _____

- (a) 0.0001
- (b) 0.001
- (c) 1
- (d) 0.1

Answer: (a) 0.0001

Question 6.

Find 0.2×0.3

- (a) 0.6
- (b) 0.06
- (c) 6
- (d) None of these

Answer: (b) 0.06

Number of decimal places in the question is always equal to the number of places in the answer.

Question 7.

Which of the following is an improper fraction?

- (a) $\frac{20}{70}$
- (b) $\frac{30}{40}$
- (c) $\frac{50}{20}$
- (d) $\frac{70}{80}$

Answer: (c) $\frac{50}{20}$

Question 8.

What is $\frac{1}{2}$ of 10.

- (a) 6
- (b) 4
- (c) 3
- (d) 5

Answer: (d) 5

Numerator is divided by denominator.

Question 9.

Find the area of rectangle whose length is 6.7 cm and breadth is 2 cm.

- (a) 13 cm^2
- (b) 13.4 cm^2
- (c) 13.8 cm^2
- (d) 14 cm^2

Answer: (b) 13.4 cm^2

Question 10.

Express 5 cm in metre.

- (a) .05
- (b) .5
- (c) .005
- (d) None of these

Answer: (a) .05

As 1 metre contains 100 cm, therefore given number is divided by 100.

Question 11.

Which amongst the following is the largest?

$|-89|$, -89 , -21 , $|-21|$

- (a) -89
- (b) -21
- (c) $|-89|$
- (d) $|-21|$

Answer: (c) $|-89|$

Question 12.

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

- (a) 10.5 cm
- (b) 1.05 cm
- (c) 105 cm
- (d) None of these

Answer: (a) 10.5 cm

Perimeter of a equilateral triangle is 3a.

Question 13.

Provide the number in the box $\cong$ such that $\frac{3}{5} \times \cong = \frac{24}{75}$.

- (a) $\frac{7}{15}$
- (b) $\frac{8}{15}$
- (c) $\frac{5}{3}$
- (d) none of these

Answer: (b) $\frac{8}{15}$

Result is divided by given number.

Question 14.

What is the fraction of the shaded area?



- (a) $\frac{2}{3}$
- (b) $\frac{1}{3}$
- (c) $\frac{1}{4}$
- (d) None of these

Answer: (a) $\frac{2}{3}$

Question 15.

Which of the following is a proper fraction?

- (a) $\frac{28}{15}$

- (b) $\frac{21}{23}$
(c) $\frac{16}{7}$
(d) $\frac{34}{3}$

Answer: (b) $\frac{21}{23}$

Question 16.

Compare 0.5 and 0.05.

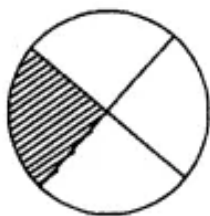
- (a) =
(b) >
(c) <
(d) None of these

Answer: (b) >

Here, whole number part in each decimal is equal to zero. So, whole number parts are equal. Therefore, we will compare the decimal part.

Question 17.

What does this drawing show :



- (a) $\frac{1}{3}$
(b) $\frac{1}{2}$
(c) $\frac{1}{6}$
(d) $\frac{1}{4}$

Answer: (d) $\frac{1}{4}$

One is taken out of four.

Question 18.

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

- (a) 171 cm^2
(b) 1.71 ccm^2

- (c) 17.1 cm^2
(d) None of these

Answer: (c) 17.1 cm^2
Area of rectangle is length x breadth.

Question 19.

What should be added to $\frac{21}{27}$ to make it $\frac{26}{27}$?

- (a) $\frac{26}{27}$
(b) $\frac{6}{27}$
(c) $\frac{5}{27}$
(d) $\frac{7}{27}$

Answer: (c) $\frac{5}{27}$

Question 20.

What are fractions with different denominators called?

- (a) Like
(b) Unlike
(c) Proper
(d) Improper

Answer: (b) Unlike

Question 21.

Express 7 paise in rupees.

- (a) $\frac{7}{10}$
(b) $\frac{7}{100}$
(c) $\frac{7}{1000}$
(d) None of these

Answer: (b) $\frac{7}{100}$

As 1 rupee contains 100 paise, therefore given number is divided by 100.

Question 22.

Which is greater $\frac{2}{7}$ or $\frac{3}{7}$.

- (a) $\frac{2}{7}$
- (b) $\frac{3}{7}$
- (c) both are equal

Answer: (b) $\frac{3}{7}$

As numerator is greater and denominator are same.

Question 23.

Find the reciprocal of $\frac{5}{8}$.

- (a) $\frac{8}{5}$
- (b) 5
- (c) 8
- (d) none of these

Answer: (a) $\frac{8}{5}$

As reciprocal are numbers whose product is 1.

Question 24.

Indian cricket team won 4 more matches than it lost with New Zealand. If it won $\frac{3}{5}$ of its matches, how many matches did India play?

- (a) 8
- (b) 12
- (c) 16
- (d) 20

Answer: (d) 20

Question 25.

What is the equivalent fraction of $\frac{8}{11}$ having the numerator 40?

- (a) $\frac{40}{11}$
- (b) $\frac{44}{40}$
- (c) $\frac{40}{55}$
- (d) $\frac{10}{40}$

Answer: (c) $\frac{40}{55}$

Question 26.

Write the place value of 2 in the following decimal numbers : 10.25

- (a) 2 tens
- (b) 2 tenths
- (c) None of these

Answer: (b) 2 tenths

As 2 is at tenth place.

Question 27.

Guru reads $\frac{3}{5}$ of a book. He finds that there are still 80 pages left to be read. What is the total number of pages in the book?

- (a) 100
- (b) 200
- (c) 300
- (d) 400

Answer: (b) 200

Question 28.

Write in mixed fraction $\frac{54}{7}$

- (a) $7\frac{5}{7}$
- (b) $7\frac{7}{5}$
- (c) $5\frac{7}{7}$
- (d) None of these

Answer: (a) $7\frac{5}{7}$

By long division we get proper fraction.

Question 29.

2.05 x 1.3 equals to

- (a) 2.665
- (b) 2.667
- (c) 2.323
- (d) 2.456

Answer: (a) 2.665

Question 30.

Express 200 g in kg.

- (a) .02
- (b) .002
- (c) .2
- (d) None of these

Answer: (c) .2

As 1 kg contains 1000 grams, therefore given number is divided by 1000.

Question 31.

Compare 35.63 and 35.67.

- (a) >
- (b) <
- (c) =
- (d) None of these

Answer: (b) < Here, the whole number are equal. So we compare the decimals. In decimal part, the extreme left digits are equal. So we compare next digits $7 > 3$: $35.67 > 35.63$

Question 32.

Find the perimeter of a square whose one side is 1.6 cm.

- (a) 6.4 cm
- (b) 64 cm
- (c) .64 cm
- (d) None of these

Answer: (a) 6.4 cm

Perimeter of square is obtained by multiplying its side by four.

Question 33.

$(\frac{1}{3})$ of 3 is _____

- (a) 2
- (b) 1
- (c) 3
- (d) none of these

Answer: (b) 1

Question 34.

Write the following decimal numbers in the expanded form 20.03.

(a) $2 \times 10 + 0 \times \frac{1}{10} + 3 \times \frac{3}{100}$

(b) $2 \times 10 + 3 \times \frac{1}{100}$

(c) None of these

Answer: (a) $2 \times 10 + 0 \times \frac{1}{10} + 3 \times \frac{3}{100}$

$$2 \times 10 = 20. \quad 3 \times \frac{1}{100} = \frac{3}{100} = 0.03$$

$$20 + 0.03 = 20.03$$

Question 35.

Given that $\frac{p}{q} = \frac{s}{t}$, which of these is true?

(a) $pq = st$

(b) $ps = qt$

(c) $pt = sq$

(d) $pt = st$

Answer: (c) $pt = sq$

Question 36.

Three sides of a triangle are 12, 10 and 8, its perimeter is :

(a) 30

(b) 15

(c) 25

(d) None of these

Answer: (a) 30

Perimeter of a triangle is sum of three sides, i.e., $a + b + c$.

Question 37.

$(\frac{1}{2}) \times (\frac{1}{5}) = \underline{\hspace{2cm}}$

(a) $\frac{1}{7}$

(b) $\frac{1}{10}$

(c) $\frac{5}{2}$

(d) $\frac{2}{5}$

Answer: (b) $\frac{1}{10}$

Question 38.

Express 35 mm in cm.

- (a) 3.5
- (b) .35
- (c) .035
- (d) None of these

Answer: (a) 3.5

As 1 cm contains 10 mm, therefore given number is divided by 10.

Question 39.

What will be $\frac{3}{4} \div 3$.

- (a) $\frac{1}{4}$
- (b) $\frac{1}{3}$
- (c) $\frac{9}{4}$
- (d) None of these

Answer: (a) $\frac{1}{4}$

1st number is multiplied by reciprocal of second number.

Question 40.

Find the average of 4.2, 3.8 and 7.6.

- (a) 52
- (b) .52
- (c) 5.2
- (d) None of these

Answer: (c) 5.2

Average can be found by dividing the sum of all numbers by the number of observations.

Question 41.

Thrice the first of three consecutive odd integers is 3 more than twice the third. The third integer is:

- (a) 9
- (b) 11
- (c) 13
- (d) 15

Answer: (d) 15

Question 42.

Express in kg : – 4 kg 8 g.

- (a) 4.008
- (b) 4.08
- (c) 4.8
- (d) None of these

Answer: (a) 4.008

Whole number is multiplied by 1000 and then 8 is added to it.

Question 43.

A rectangular sheet of paper is 12 cm long and 10 cm wide. Its perimeter is :

- (a) 40
- (b) 42
- (c) 44
- (d) None of these

Answer: (c) 44

Perimeter of a rectangle is $2(l + b)$.

Match the following:

Question 1.

1. 1 cm	(a) 1 kg
2. 100 cm	(b) 1 rupee
3. 1000 g	(c) .01 m
4. 100 paise	(d) 1 m

Answer:

1. 1 cm	(c) .01 m
2. 100 cm	(d) 1 m
3. 1000 g	(a) 1 kg
4. 100 paise	(b) 1 rupee

Question 2.

1. $\frac{3}{8}$	(a) $\frac{1}{2}$
2. $-\frac{5}{7}$	(b) 1
3. 1	(c) $-\frac{7}{5}$
4. 2	(d) $\frac{8}{3}$

Answer:

1. $\frac{3}{8}$	(d) $\frac{8}{3}$
2. $-\frac{5}{7}$	(c) $-\frac{7}{5}$
3. 1	(b) 1
4. 2	(a) $\frac{1}{2}$

state whether the statements are true or false:

Question 1.

A proper fraction is a fraction that represents a part of whole.

Answer: true

Question 2.

Like fractions have equal numerator.

Answer: false

Question 3.

$$\frac{1}{2} \times \frac{1}{7} = \frac{1}{14}$$

Answer: true

Question 4.

$$4.1 \times 100 = 41$$

Answer: false

Fill in the blanks:

1. Product of two fractions = $\frac{\text{product of their numerator}}{\dots\dots\dots}$

Answer: product of their denominator

2. Fractions having same denominators are fractions.

Answer: like

3. Fractions having different denominators are fractions.

Answer: unlike

4. Fractions with numerator 1 are called fractions.

Answer: unit

5. A mixed fraction is a combination of whole number and a fraction.

Answer: proper

6. The non-zero numbers whose product with each other is 1 are called the of each other.

Answer: reciprocals

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

Answer: inverting

8. All the sides of an equilateral triangle are

Answer: equal
