

Class-III

Subject: Math

Student Name: _____

Sec _____

Roll No. _____

Date: _____

Chapter - 11 Algebra

I. Fill in the blanks-

- 1) The branches of mathematics are arithmetic, geometry and _____.
- 2) The value of variable is not _____. It can take different values.
- 3) Variables allow us to express many common rules in both _____ and _____.
- 4) For getting the solution of an equation one method is the _____ method.

II. Write True or False-

- 5) 9 subtracted from P is $9 - P$. ()
- 6) $19 = x + 8$ is an equation. ()
- 7) $(7 \times 3) - 19$ is an equation. ()
- 8) $2m < 30$ is an equation. ()

III. Choose the correct answer-

- 9) In an equation $10y = 80$. The value of variable is ()
 a) 10 b) 5 c) 8 d) 9
- 10) Saritha's present age to be 'y' years. What will her age be 7 years from now ()
 a) $y = 7$ b) $y + 7$ c) $y - 7$ d) None

IV. Answer the following –

- 11) If there are 50 mangoes in a box. Write the total number of mangoes in terms of the number _____ of boxes. _____
- 12) Give expression for $-p$ multiplied by 5 _____
- 13) When $p - 10 = 15$, then value of p is _____
- 14) $b + 5 = 9$ then $b = 9$ Equation satisfied or not. _____
- 15) Find the rule which gives the number of matchsticks to make **Z** _____

V. Solve the following –

16) Ravi is brother of Latha. Ravi is 4 years younger than latha. Find Ravi's age in terms of latha's age?

17) Give expressions in the following cases-

a) ' Y ' is multiplied by -8 and then 5 is added to the results.

b) ' y ' is multiplied by 5 and the result subtracted from 16.

18) From expressions using Z , 3 and 9. Every expression must have Z in it. Use only two number operations. These should be different.

19) Change the following statements using expressions in to statements in ordering language.

a) Our section has Y students. The class has $5y$ students.

b) A Note book costs ₹. n . A text book costs ₹. $5n$.

20) Pick out the solution from the values given in the brackets next to each equation. Show that the other values do not satisfy the equation.

a) $\frac{n}{2} = 8$ (7 , 16 , 10 , 14)

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b) $y + 5 = 2$ (0 , 3 , 4, -3)

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c) $7x = 70$ (10 , 7, 5 , - 10)

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Chapter-7 Fractions

I. Fill in the blanks-

- 1) Fraction is a part of a _____.
- 2) In $\frac{3}{4}$ 3 is called as _____ and 4 is called as _____.

To find equivalent fraction of a given fraction we may _____ or _____

- 3) both the numerator and denominator of the given fraction by the same number.
- 4) Fill with appropriate sign (< , > or =) $\frac{7}{5}$ $\frac{9}{5}$

II. Write True or False-

- 5) We can convert a mixed fraction in to improper fraction. ()
- 6) In a proper fraction the numerator is greater than denominator. ()
- 7) A fraction is said to be in the lowest form if its numerator and denominator have no common factor except 1.
- 8) Fraction with the different denominator are called like fractions. ()

III. Choose the correct answers-

- 9) Equivalent fraction of $\frac{5}{6}$ is ()
 - a) $\frac{10}{12}$ b) $\frac{15}{12}$ c) $\frac{5}{12}$ d) $\frac{20}{18}$
- 10) Simple form of the fraction $\frac{18}{27}$ is ()
 - a) $\frac{4}{3}$ b) $\frac{2}{3}$ d) $\frac{2}{5}$
- 11) Replace in the fraction $\frac{3}{5} = \frac{\text{input}}{\text{input}}$ /20 ()
 - a) 15 b) 12 c) 20 d) 10
- 12) $\frac{1}{5} + \frac{6}{5} =$ _____ ()
 - a) $\frac{2}{5}$ b) $\frac{5}{5}$ c) $\frac{9}{5}$ d) $\frac{7}{5}$
- 13) $\frac{7}{4} - \frac{2}{4} =$ _____ ()
 - a) $\frac{5}{4}$ b) $\frac{4}{5}$ c) $\frac{9}{4}$ d) $\frac{4}{4}$

IV. Answer the following –

- 14) $\frac{5}{12}$ is called as _____
- 15) Fractions which have same denominators are called _____
- 16) Fractions which have different denominators are called _____.

V. Solve the following-

- 17) What fraction of a day is 6 hours?
- 18) Write the natural numbers from 10 to 25. What fraction of them are prime numbers?
- 19) Check whether $\frac{4}{5}$ and $\frac{24}{30}$ are equivalent fractions.

20) Express $\frac{15}{2}$ as mixed fraction.

21) Convert $2\frac{4}{5}$ in to improper fraction.

22) Do the following-

a) $\frac{1}{3} + \frac{2}{4} + \frac{3}{2}$

b) $\frac{3}{2} - \frac{1}{5}$

23) Latha takes $5\frac{1}{3}$ minutes to walk across a park. Rajitakes $9/5$ minutes to do the same

Who walks more time and by what fraction?

24) Arrange the following fractions in both ascending and descending order.

$\frac{3}{4}$ $\frac{1}{2}$ $\frac{5}{6}$ $\frac{2}{8}$ $\frac{5}{12}$

16) Write the following as fractions in lowest terms

a) 10.25

b) 0.084

c) 0.175

17) Under line which is greater

a) 0.09 or 0.12

b) 8 or 0.8

c) 2.5 or 2.50S

18) Find the following

a) $0.009 + 7.35 + 46.09$

b) $496.008 + 36.04 + 4.125$

c) $28.05 - 3.126$

b) $8.456 - 4.59$

19) Samson travelled 4 km 68 m by bus 2 km 189m by car and the rest 0.096 km he walked. How much distance did he travel in all?

20) Kanchan bought a water melon weighing 7 kg 150 g out of this she gave 2 kg 840 g to her Neighbour. What is the weight of the watermelon left with Kanchan?

Ch-12 RATIO AND PROPORTION

I. Fill in the blanks-

- 1) The comparison of some quantities with same units is called as _____.
- 2) The method in which we find the value of one unit and then the value of required number of units is known as _____.
- 3) Equality of two ratios is called as _____.

II. True Or False -

- 4) A ratio may be treated as a fraction, thus the ratio 4 : 5 may be treated as $\frac{4}{5}$ ()
- 5) Two quantities can be compared if they are different units ()
- 6) $95 : 45 = 19 : 9$ ()

III. Choose the correct answers –

- 7) The ratio between 20 girls and 2 boys ()
 a. 15 : 20 b. 4 : 3 c. 3 : 4 d. None
- 8) Symbol of proportion is ()
 a. : b. = c. = d. ::
- 9) Cost of 5 pens is ₹ 40, Cost of one pen ()
 a. 7 b. 8 c. 6 d. 9

IV. Answer the following –

- 10) Symbol of ratio is _____.
- 11) A ratio may be treated as _____.
- 12) If two ratios are equal, we say that they are in _____.

V. Solve the following –

- 13) There are 20 teachers in a school of 4500 students. Find the ratio of the number of teachers to the number of students.
- 14) Out of the 2000 students 600 opted lawn tennis, 900 opted cricket and remaining opted football. If a student can opt only one game find the ratio of
- Number of students who opted lawn tennis to the number of students who opted football.
 - Number of students who opted cricket to the number of students opting lawn tennis.
 - Number of students who opted cricket to the number total of students.

15) Determine if the following are in proportion.

a. 15, 45, 40, 120

b. 66, 121, 9, 96

16) Determine if the following ratios form a proportion. Also, write the middle term and extreme terms where the ratios form a proportion.

a. 25 cm: 1m and ₹ 40 : ₹ 160

b. 2000 ml : 2.5l and Rs.4 : Rs.50

17) Cost of 6 kg of Bengal gram is ₹ 115.20.

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- a. What will be the cost of 4 kg of Bengal gram ?
- b. What quantity of Bengal gram can be purchased in ₹ 57.60 ?

- 18) Leena purchased 5 books for ₹ 300 and Latha purchased 8 books for ₹ 96. Can you tell who got the books at cheaper rates?

Ch-14 PRACTICAL GEOMETRY

I. Fill in the blanks-

- 1) To draw line segments and to measure their lengths we use _____.
- 2) We construct an angle of a given measure by using _____.

II. Write True or False-

- 3) To draw a circle we use a divider. ()
- 4) A perpendicular to a line through a point on the line ()

III. Solve the following-

- 5) Draw a circle of Radius 2.2 cm

- 6) Draw any line segment PQ with out measuring PQ. Construct a copy of PQ.

- 7) Draw any line segment AB. Mark any point M on it. Through M, draw a perpendicular to AB. (use ruler and compasses)

- 8) Draw AB of length 7.3 cm and find its axis of symmetry.

- 9) Draw a right angle and construct its bisector.