



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Algebra and Geometry

Class: 7

Date: 27.02.21

Duration: 40 min

Worksheet 13

Full Marks: 15

LINEAR EQUATION IN ONE VARIABLE

Choose the correct option:

- If 3 is subtracted from seven times a number, the result is 53. Find the number.
a. 5 b. 6 c. 7 d. 8
- Find two numbers such that one exceeds the other by 11 and their sum is 73.
a. 41, 32 b. 31, 42 d. 73, 84 d. 62, 73
- The sum of three consecutive multiples of 5 is 555. Find the least of the multiples.
a. 180 b. 185 c. 190 d. 195
- Three-fourth of a number is more than one-fourth of a number by 2. Find the number.
a. 2 b. 3 c. 4 d. 8
- Divide 22 into two parts in such a way that $\frac{2}{3}$ of one part is equal to $\frac{1}{4}$ of the other.
a. 6, 16 b. 8, 14 c. 9, 13 d. 10, 12
- Two numbers are such that the ratio between them is 5 : 2. If each is increased by 1 the ratio between the new numbers so formed is 7 : 3. Find the original number.
a. 10, 4 b. 20, 8 c. 40, 16 d. 80, 32
- Three numbers are in the ratio 2 : 3 : 4 and their sum is 54. Find the least number.
a. 12 b. 18 c. 24 d. 36
- The sum of three consecutive even numbers is 54. Find the largest numbers.
a. 12 b. 16 c. 24 d. 36

9. Length of rectangle is 4 m less than 3 times its breadth. If the perimeter of rectangle is 32 m. Find its length
a. 10 m b. 11 m c. 14 m d. 16 m
10. The numerator of a fraction is 5 less than the denominator. If 2 is added to both numerator and denominator, it becomes $\frac{4}{5}$. Find the fraction.
a. $\frac{23}{28}$ b. $\frac{23}{18}$ c. $\frac{18}{23}$ d. $\frac{18}{25}$
11. The numerator of a fraction is 1 less than the denominator. If numerator is decreased by 2 and denominator is increased by 3, the fraction becomes $\frac{1}{4}$. Find the fraction.
a. $\frac{3}{4}$ b. $\frac{1}{8}$ c. $\frac{4}{5}$ d. $\frac{3}{8}$
12. The sum of the digits of a 2 digit number is 8. The number obtained by interchanging the digits exceeds the original number by 18. Find the number
a. 17 b. 35 c. 26 d. 44
13. A number consists of two digits whose sum is 5. If 9 is subtracted from the number the digits are reversed. Find the number.
a. 32 b. 41 c. 50 d. 14
14. A number consists of two-digits. The digit at the units place is 3 times the digit at the tens place. If 36 is added to the number, the digits are reversed. Find the number.
a. 13 b. 26 c. 39 d. none of these
15. A boat travels 20 km upstream in a river in the same period of time as it takes to travel 30 km downstream. If the rate of the stream is 4 km/hr, find the speed of boat in still water.
a. 20 km/hr b. 24 km/hr c. 25 km/hr d. 30 km/hr