



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Arithmetic**

**Class: 7**

**Date: 02. 05.20**

**Duration: 40 min**

**Worksheet 17**

**Full Marks: 15**

## PROPORTION

**Choose the Correct options:**

- 1) Find the mean proportional between 7 and 63?
  - a. 35
  - b. 21
  - c. 27
  - d. 30
- 2) What is 4th proportional in 9, 13 and 153?
  - a. 251
  - b. 181
  - c. 175
  - d. 221
- 3) The 3rd proportional to 18 and 54 is?
  - a. 144
  - b. 72
  - c. 162
  - d. 972
- 4) If  $a : b :: 3 : 5$ ,  $b : c :: 4 : 3$  and  $c : d :: 4 : 5$ ,  $a : d = ?$ 
  - a. 4 : 5
  - b. 16 : 25
  - c. 64 : 25
  - d. 64 : 125
  - e. 16 : 125
- 5) If  $a : b = 2 : 3$ , find the value of  $(3a + 5b) : (3a - b)$ 
  - a. 2 : 7
  - b. 7 : 1
  - c. 2 : 5
  - d. 4 : 9
- 6) What is the fourth proportional to the numbers 2, 5, 8.
  - a. 40
  - b. 20
  - c. 15
  - d. 10
- 7) The third proportional to  $x^2 - y^2$ ,  $x - y$  is?
  - a.  $x + y$
  - b.  $x - y$
  - c.  $x - y / (x + y)$
  - d. 1
- 8)  $a : b = 5 : 2$ . What is the value of  $(8a + 9b) : (8a + 2b)$ ?
  - a. 22:29
  - b. 26:61
  - c. 29:22
  - d. 61:26

- 9)  $1:3 = 1\frac{2}{3}:x$ . The value of x is?
- 1
  - 3
  - $4\frac{1}{6}$
  - 5
10. What number has a 5:1 ratio to the number 10?
- 42
  - 50
  - 55
  - 62
11. The third proportional to 1 and 2 is?
- 2
  - 3
  - 4
  - 1
12. The fourth proportional to 12, 14 and 18 is?
- 21
  - 20
  - 22
  - $\frac{28}{3}$
13. The mean proportional between 4 and 9 is?
- 9
  - 3
  - 6
  - 4
14. The proportion of copper and zinc in the brass is 13:7. How much zinc will there be in 100 kg of brass?
- 20 kg
  - 35 kg
  - 55 kg
  - 14 kg
15. The first three terms of a proportion are 3, 9 and 12. The fourth term is?
- 4
  - 6
  - 18
  - 36