



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Arithmetic

Class: 7

Date: 02. 05.20

Duration: 40 min

Worksheet Solution 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?
- a. 1
 - b. 3
 - c. $4\frac{1}{6}$
 - d. 5**
10. What number has a 5:1 ratio to the number 10?
- a. 42
 - b. 50**
 - c. 55
 - d. 62
11. The third proportional to 1 and 2 is?
- a. 2
 - b. 3
 - c. 4**
 - d. 1
12. The fourth proportional to 12, 14 and 18 is?
- a. 21**
 - b. 20
 - c. 22
 - d. $\frac{28}{3}$
13. The mean proportional between 4 and 9 is?
- a. 9
 - b. 3
 - c. 6**
 - d. 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?
- a. 20 kg
 - b. 35 kg**
 - c. 55 kg
 - d. 14 kg
15. The first three terms of a proportion are 3, 9 and 12. The fourth term is?
- a. 4
 - b. 6
 - c. 18
 - d. 36**