



ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian minority Institution

Subject: Mathematics

Class: X

Date: 22.04.2020

Answer key of Worksheet-14

Chapter -Ratio and proportion

Topic- Proportion

1. Choose the correct alternative. 1x15=15

- a) If $10:35::x:42$ then value of x is Ans iii) 12
- b) If $6:x::2:13$ then value of x is Ans i) 39
- c) If $2a, 3b, 6ac$ and $9bc$ are in proportion then Ans i) $2a \times 9bc = 3b \times 6ac$
- d) The fourth proportional of $6, 9, 12$ is Ans iii) 18
- e) what is the number to be added with $2, 4, 6$ and 10 to get the result in proportion ?
 Ans i) 2
- f) The third proportional of 9 and 15 is Ans ii) 25
- g) The third proportional of $2a^2$ and $3ab$ is Ans i) $\frac{9b^2}{2}$
- h) Mean proportional of $1/12$ and $1/75$ is Ans iii) $\frac{1}{30}$

i) Mean proportional of pqr and $\frac{pr}{q}$ is Ans i) pr

j) Fourth proportional of $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{1}{5}$ is Ans ii) $\frac{3}{20}$

k) If $8:y::2:21$ then value of y is Ans i) 84

l) Third proportional of $9pq$ and $12pq^2$ is Ans i) $16pq^3$

m) If $x:50::3:2$ then value of x is Ans ii) 75

n) Mean proportional of 8.1 and 2.5 is Ans i) 4.5

o) 23, 30, 57 and 78 - what number is to be subtracted from each to get the result in proportion?

Ans iii) 6

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