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ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian Jesuit minority Institution

Subject: Mathematics

Class: X

Date: 21.04.2020

Chapter- Ratio and proportion Answer key of worksheet-13

Topic -Ratio

1. Choose the correct alternative. 1x15=15

- a) Mixed ratio of $a:b$, $p:q$ and $x:y$ is Ans ii) $apx:bqy$
- b) If $A:B=6:7$ and $B:C=8:9$ Then $A:C$ is Ans i) 24:35
- c) If $A:B=6:7$ and $B:C=8:9$ then $A:B:C$ is Ans iii) 48:56:63
- d) If $x:y=2:3$ then $(4x-y):(2x+3y)$ is Ans i) 5 :13
- e) If $(3x+5y):(7x-4y)=7:4$ then $x:y$ is Ans iii) 48: 37
- f) The inverse ratio of the mixed ratio of $p^2q:r$, $q^2r:p$ and $r^2p:q$ is i) $1:p^2q^2r^2$
- g) $(5x-3y):(2x+4y)=11:12$ then $x:y$ is Ans ii) 40:19
- h) The compound ratio of 4:5, 5:7 and 9:11 is Ans i) 36:77
- i) If $p:q=5:7$ and $p-q=-4$, then value of $3p+4q$ is Ans iii) 86
- j) If $x:y=2:3$ and $y:z=4:7$ then $x:y:z$ is Ans i) 8:12:21
- k) How much should be added to each term of 2:5 to get 6:11 Ans iii) 8/5
- l) Find the ratio of 4 months and 1 year 6 months Ans i) 2:9

m) Find the ratio of p kg and q gm Ans ii) 1000p:q

n) Mixed ratio of $\frac{a}{b} : c$, $\frac{b}{c} : a$ and $\frac{c}{a} : b$ is Ans i) 1 : abc

o) Ratio of x days and z months is Ans i) x:30z

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