

VII- Mathematics Assignment No-01-Comparing quantities.Ratios and Proportions.

(Q1) Find the ratio of

(a) 50 to 200 (b) 50 Paise to Rs 4

(c) 25 minutes to 1 hour (d) 250 ml to 2 litres.

(Q2) Express the following ratios in the simplest form

(a) 60 : 90 (b) 100 : 500

(c) 125 : 500 (d) 121 : 1331

(Q3) Express the following in the language of ratio

(a) The length of a rectangle is twice its width

(b) The number of students who passed in an examination is $\frac{3}{4}$ of those who appeared

(Q4) The number of boys and girls in a school are 2100 and 1800 respectively.

Express the ratio of the number of boys to that of girls in the simplest form

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(Q5) The ratio of Copper and Zinc in an alloy is 4:3. Find the weight of each metal in an alloy whose weight is 343 grams.

(Q6) Compare the ratio

(a) 3:4 and 5:7

(b) 5:4 and 1:3

(Q7) Divide 250 in the ratio 3:2

(Q8) If $A:B = 3:4$ and $B:C = 5:6$

Find $A:C$

(Q9) If $A:B = 2:3$ and $B:C = 7:8$

Find $A:B:C$

(Q10) If $3A = 2B = 5C$, Find $A:B:C$

ANSWER

(Q1)(a) $\frac{1}{5}$	(Q3)(a) 1:2	(Q5) $\frac{5}{4} > \frac{1}{3}$
(b) $\frac{1}{8}$	(b) 3:4	(Q7) 150, 100
(c) $\frac{5}{12}$	(Q4) 7:6	(Q8) 15:24
(d) $\frac{1}{8}$	(Q5) Copper = 196 grams Zinc = 147 grams	(Q9) 14:21:24
(Q2)(a) $\frac{2}{3}$		(Q10) 10:15:6
(b) $\frac{15}{4}$		
(c) $\frac{15}{4}$		
(d) $\frac{1}{11}$	(Q6) (a) $\frac{3}{4} > \frac{5}{7}$	