

Assignment - I

Q1 HCF \times LCM = Product of the two numbers
- ex.

$$\Rightarrow 12 \times 336 = 84 \times x$$

$$x = \frac{336}{84} = 48 \text{ (b)}$$

Q2 Smallest five-digit number -
Largest three digit number =
 $10000 - 999 = 9001 \text{ (c)}$

Q3 30005 (c)

Q4 2047 (a)

Q5 ~~503535~~ $\rightarrow 3 \times 1000 + 3 \times 10$
~~8153000 + 30 = 3030~~ (c)

Q6 $3444 \sqrt{3556} \quad |$

$$\underline{3444}$$

$$\underline{112}$$

$\sqrt{3444} \quad |$

$$\underline{\underline{336}}$$

$$\underline{\underline{84}} \quad | \quad \underline{\underline{12}}$$

28 J 84 (3)

$$\begin{array}{r} 34 \\ \times 8 \\ \hline 0 \end{array}$$

= 28 (d)

Q7 → Q10.

Bindu Seema Rani Reeta mary

Q7 mary (c)

Q8 Rani (b) P.P.P - 00001

Q9 Reeta (c)

Q10 Seema (d)

Q11 $15x$ and $11x$ are the two numbers
 $x = HCF = 13$

Numbers are 195 and 143

(b)

2

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Q13

$$P \times S = R$$

X(b)

Q14 Brother

Q15 m+p (a)

Q17 1000x + 100y + 10z + w

Q16 E B A C D

Between B and C (b)

Q18 MxN-C+F (d)

Q12	3 495	2 900	3 1665
	3 165	2 450	3 555
	5 55	5 225	5 185
	11 11	5 45	37 37
	11 1	3 9	
		3 3	HCF = 45cm
		1	

Assignment-II

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$$(A+B+C)'s \text{ work of 1 day} = \frac{83}{280}$$

$$A's \text{ work in 1 day} = \frac{83}{280} - (B+C)$$

$$\therefore " " " B \rightarrow \frac{1}{20}$$

$$= \frac{43}{280}$$

$$\therefore " " " A \& B \rightarrow \frac{1+1}{15+20} = \frac{2}{35}$$

$$B \& " " " = \frac{83}{280} - (A+B)$$

$$4 \text{ days' work} \rightarrow \frac{7}{15}$$

$$= \frac{13}{280}$$

$$\text{Left work} \rightarrow 1 - \frac{7}{15} = \frac{8}{15}$$

$$= \frac{27}{280}$$

Q2

$$(A+B) \& 1 \text{ day's work} \rightarrow \frac{1}{15}$$

A will take the least time

~~$$(B+C)'s " " \rightarrow \frac{1}{7}$$~~

~~$$(A+C)'s " " \rightarrow \frac{1}{4}$$~~

Q3

$$A \rightarrow 20 \text{ minutes}$$

$$B \rightarrow 30 \text{ minutes}$$

$$A \rightarrow \frac{1}{20} \text{ (1 minute)}$$

$$2(A+B+C) = \frac{1}{5} + \frac{1}{7} + \frac{1}{4} = \frac{83}{140}$$

$$B \rightarrow \frac{1}{20} \quad (\text{1 minute})$$

$$(A+B) = \frac{1}{20} + \frac{1}{30} = \frac{3+2}{60}$$

$$= \frac{1}{12} \text{ (1 minute)}$$

Both will take 12 minutes to fill the tank completely.

Q4 A \rightarrow 10 = $\frac{1}{110}$ (1 minute)

B \rightarrow 10 = $\frac{1}{110}$ ("")

$$(A+B) \rightarrow \frac{3}{10} + \frac{3}{10} \rightarrow \frac{6}{10} \text{ (3 days)}$$

B's work for the next three days $\rightarrow \frac{3}{10}$

$$\begin{aligned} A's & \quad " \quad " \quad 10 \quad 1 \\ " \quad " & \rightarrow 1 - \left(\frac{6}{10} + \frac{3}{10} \right) \end{aligned}$$

$$= \frac{1}{10}$$

Total work done by B = $\frac{2}{5}$

Earning of B = $\frac{2}{5} \times 54000 = 32400$

Q5 A's 1 day's work $\rightarrow \frac{1}{124}$

B's " " " $\rightarrow \frac{1}{16}$

C's " " " $\rightarrow \frac{1}{112}$

$$(A+B+C) = \frac{1}{24} + \frac{1}{6} + \frac{1}{12} = \frac{7}{24}$$

(1 day)

~~Total days $\rightarrow \frac{24}{7}$~~

Q6 (b) Snake (Reptile \rightarrow ground)

(lives \rightarrow in water
Others)

Q8 24:32:43:

(a) 129 (multiple of 43.)
(HCF)

Q9. $2, 22, 198, 1386, ?$

$$2$$

$$22 = 2 \times 10 + 2$$

$$198 = 22 \times 8 + 22$$

$$1386 = 198 \times 6 + 198$$

$$x = 1386 \times 4 + 1386 = 6930$$

Q10. (d) 425 (other numbers
are given by 3.)

Q11. 1 man's work of 1 day = x
" woman's " " " " = y

Work of 2 men and 3 women

$$= 2x + 3y$$

$$= 1116$$

Work of 3 men and 7 women
= $3x + 7y = 1110$

Q14.

296 is divisible by 2.

By solving the equations

$$\begin{aligned} 2x + 3y &= 1116 \\ 3x + 7y &= 1110 \end{aligned}$$

$$y = \frac{1}{800} \text{ and } 3x = \frac{11}{400}$$

1 woman takes 400 days.
5 women will take 80 days.

Q12. Amount of grass on day one = x unit
per day = y .

$$x + 7y = 7 + 29$$

$$x + 9y = 9 \times 25$$

$$x = 126 \quad y = 11$$

32 horses $\rightarrow N$ days

~~$$x + Ny = 32N$$~~

~~$$N = 116$$~~

$$N = 16 \text{ days.}$$

Q15.

$A \leftrightarrow B \leftrightarrow C \Rightarrow 5$ hours

$C \leftrightarrow 2B \quad B \leftrightarrow 2A \quad A = A$

$$A+B+C = 4A + 2A + A = 7A \rightarrow \text{Show}$$

A alone will take = 35 hours

Q16 6: 252 : 8: ?

6: 252

$$252 = 6 \times 6 \times 6 + 6 \times 6 = 252$$

8: ?

$$= 8 \times 8 \times 8 + 8 \times 8 = 1536$$

Q17 Total work = LCM of 20, 25
and so days = 100 units

Aman's work of 1 day = 5 units

Bharu's " " " " = 4 units

Chenu's " " " " = 2 units

Let Chenu work of x days

Remaining $\rightarrow (13-x)$ days

$$x(5+4-2) + (13-x)(5+4) = 100$$

$$x = 8.5 \text{ days}$$

Q18 R Q P

L J Q

M K R

ENGLISH

F H T I

G I K J

H K Q D O P R

I J K

M K L

N L M

COMMENT

D N T U

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