

Q1: Worker A takes 8 hours to do a job. Worker B takes 10 hours to do a job. How long should it take both A and B, working together to do same job.

A] $\frac{40}{9}$

B] $\frac{24}{9}$

C] $\frac{34}{9}$

D] $\frac{44}{9}$

Answer A

Chocolate rule

$\text{LCM}(8,10)=40=\text{No of Chocolates}$
Efficiency

A 8hours $40/8=5 \text{ C / hour}$

B 10 hours $40/10=4 \text{ C / hour}$

A+B working together will consume 9 Chocolates in one hour so total number of hours $=40/9$ Ans

Q2: A and B can together complete a piece of work in 4 days. If A alone can complete the same work in 12 days, in how many days can B alone complete that work?

A]4 days

B]5 days

C]6 days

D]7 days

Answer C

$$XY / Y - X \quad 4 \times 12 / 12 - 4 = 6 \text{ days ans}$$

Q3: P can finish a work in 18 days. Q can finish the same work in 15 days. Q worked for 10 days and left the job. how many days does P alone need to finish the remaining work?

A] 8

B] 5

C] 4

D] 6

Answer D

Chocolate rule

$$\text{LCM}(18,15)=90 \text{ Chocolates}$$

	Days	Efficiency
P	18	$90/18=5\text{C/day}$
Q	15	$90/15=6\text{C/Day}$

Q worked for 10 days means Q has consumed $6 * 10 = 60 \text{ C}$

So remaining out of total $90 \text{ C} = 90 \text{ C} - 60 \text{ C} = 30 \text{ C}$ which needs to be consumed by only P

So $30 / 5 = 6 \text{ Days}$ ans

Q4: A man can do a piece of work in 5 days, but with the help of his son he can do it in 3 days. In what time can the son do it alone?

A] $15/4$ days

B] $15/2$ days

C] 15 days

D] 12 days

Answer B

$\frac{X Y}{Y-X}$

Q5: To complete a work A and B takes 8 days, B and C takes 12 days, A,B and C takes 6 days. How much time A and C will take

A] 24 days

B] 16 days

C] 12 days

D] 8 days

Answer D

$$\text{LCM}(8,12,6)=24 \text{ Chocolates}$$

	Efficiency	LCM-24
A+B ----- 8	3 Chocolates/day	
B+C-----12	2 Chocolates / day	
A+B+C-----6 days	4 Chocolates/day	

If A+B+C consume 4 chocolates in a day and A + B consume 3 Chocolates in a day then C consume $4-3=1$ Chocolate per day

Similarly if A+B+C consume 4 chocolates per day and B+C 2 chocolates per day so A will consume 2 Chocolates per day

So A+ C= $2+1= 3$ Chocolates per day

So total number of days taken by A+C to complete the task= $24/3=8$ days

Q6: A does half as much work as B in three-fourth of the time. If together they take 18 days to complete the work, how much time shall B take to do it

- A] 40 days
- B] 35 days
- C] 30 days
- D] 25 days

A does half as much work as B in three-fourth of the time. If together they take 18 days to complete the work, how much time shall B take to do it

A] 40 days If B=40 then $A = \frac{3}{4} * 40 * 2 = 60$ $\frac{1}{A} + \frac{1}{B} \neq \frac{1}{18}$

B] 35 days if B=35 then $A = \frac{3}{4} * 35 * 2 = 105/2$ $\frac{1}{A} + \frac{1}{B} \neq \frac{1}{18}$

C] **30 days** if B=30 then $A = \frac{3}{4} * 30 * 2 = 45$ $\frac{1}{45} + \frac{1}{30} = \frac{1}{18}$

D] 25 days

OR

Let B takes x days to do the work.

According to the question

A takes $2 * (\frac{3x}{4}) = \frac{3x}{2}$

(A+B)s 1 days work = $\frac{1}{18}$

Then

$\frac{1}{x} + \frac{2}{3x} = \frac{1}{18}$

$\frac{5}{3x} = \frac{1}{18}$

$x = 30$

Hence B takes 30 days to do work

Q7: A is thrice as good a workman as B and takes 10 days less to do a piece of work than B takes. B alone can do the whole work in

A] 15 days

B] 10 days

C] 9 days

D] 8 days

A is thrice as good a workman as B and takes 10 days less to do a piece of work than B takes. B alone can do the whole work in

- A] 15 days if $B=15$ $A=15-10=5$ now A is thrice as good as B Ans
- B] 10 days if $B=10$ $A=10-10=0$ Not possible
- C] 9 days if $B=9$ $A=9-10=-1$ Not possible
- D] 8 days if $B=8$ $A=8-10=-2$ Not Possible

Q8: P is able to do a piece of work in 15 days and Q can do the same work in 20 days. If they can work together for 4 days, what is the fraction of work left?

- A] $\frac{8}{15}$
- B] $\frac{7}{15}$
- C] $\frac{11}{15}$
- D] $\frac{2}{11}$

Answer A

Efficiency or 1 day work $\text{LCM}(15,20)=60$ chocolates

P 15 4

Q 20 3

Together they can consume 7 Chocolates in one day they worked for 4 days so 28 chocolates consumed now pending chocolates $60-28=32$

So fraction of work left = $32/60=8/15$ Ans

Q9: A work can be finished in 16 days by twenty women. The same work can be finished in fifteen days by sixteen men. The ratio between the capacity of a man and a woman is

A] 1:3

B] 4:3

C] 2:3

D] 2:1

Answer B

Method 1 from options

20 Women taking 16 days where as 16 men taking 15 days

Number of men is also less and number of days is also less so clearly capacity of man is more than woman so only one option according to that

Method 2

$$D1 * W1 = D2 * W2$$

$$16 \times 20 = 15 W2$$

$$W2 = 64/3$$

$$16 \text{ Men} = 64/3 \text{ Women}$$

1 Man 1 day work / 1 Women 1 day work

$$1/16 \quad / \quad 1/64/3$$

$$(1/16) / (3/64)$$

$$(1/16) * (64/3) = 4:3 \text{ Ans}$$

Or Method 3

$$1/(16*15) : 1/(16*20)$$

$$4/3$$

Q10: A and B working together can complete a work in 10 days. B and C working together complete the work in 12 days. A and C working together complete the work in 15 days. Who is the slowest of three?

A] A

B] B

C] C

D] Can't be determined

Answer C

Efficiency

LCM=60

$$A+B=10$$

6

$$B+C=12$$

5

$$A+C=15$$

4

$$2(A+B+C)=15 \text{ Chocolates}$$

$$A+B+C=7.5 \text{ Chocolates}$$

$$C=1.5 \text{ Chocolates per day (because } 7.5 - 6)$$

$$B=3.5 \text{ Chocolates per day (because } 7.5 - 4)$$

$$A=2.5 \text{ Chocolates per day (because } 7.5 - 5)$$

So slowest is C

Q11: A piece of work can be done by 6 men and 5 women in 6 days or 3 men and 4 women in 10 days. It can be done by 9 men and 15 women in how many days?

A] 3 days

B] 4 days

C] 5 days

D] 6 days

Answer A

Method 1 from options

3M and 4 W = 10 days (given)

Three times of it

So 9 M and 12 W will take $10/3$ days

So as required 9 M and 15 W will take slightly less than $10/3$ days so only 1 option according to that 3 days Ans

Or Method 2

Let 1 man 1 day work = x

1 Woman 1 day work = y

$$6x + 5y = 1/6$$

$$3x + 4y = 1/10$$

Solving $x = 1/54$ $y = 1/90$

So 9 men and 15 women 1 day work = $9/54 + 15/90 = 1/3$

So answer is 3 days

Q12: A alone can complete a work in 16 days and B alone can do in 12 days. Starting with A, they work on alternate days. The total work will be completed in

A] $48/7$ days

B] 13 days

C] $55/4$ days

D] 14 days

Answer C

LCM (16,12)=48

A 16 3 Chocolates per day

B 12 4 Chocolates per day

(7Chocolates in 2 days)X 6 =42 Chocolates in 12 days

So after 12 days 42 chocolates will be finished

On 13th day A will consume further 3 Chocolates

Now only 3 chocolates will be left which B will consume in next $\frac{3}{4}$ th of a day

So final answer 13 $\frac{3}{4}$ in mixed fraction so $13\frac{3}{4}$ final answer

Q13: A, B and C, can complete a piece of work individually in 15, 30 and 40 days respectively. They started the work together and the A & B left 2 days and 4 days before the completion of the work respectively. In how many days was the work ends?

A] $15\frac{2}{15}$

B] $13\frac{6}{15}$

C] 10

D] $20\frac{1}{11}$

Answer A

$$\text{LCM}(15,30,40)=120$$

A	15	8 Chocolates per day
B	30	4 Chocolates per day
C	40	3 Chocolates pe day

In last 2 days only C was working so C consumed 6 Chocolates in last 2 days

Before last 2 days A and C were working for 2 days so they consumed $11 * 2 = 22$ Chocolates in this duration

So total 28 chocolates were finished in last 4 days which means earlier working together A+B+C must have consumed $120-28=92$ Chocolates

So duration they worked together = $92/15$

So total number of days in which the task is finished

$$=92/15 + 4 = 152/15 \text{ in mixed fraction}$$

Q14: A can build up a structure in 8 days and B can break it in 3 days. A has worked for 4 days and then B joined to work with A for another 2 days only. In how many days will A alone build up the remaining part of the structure?

A] 22

B] $44/3$

C] $22/3$

D] $77/4$

Answer C

$$\text{LCM}(8,3)=24$$

A 8 3 Chocolates per day

B 3 -8 Chocolates per day (take negative because B is working in opposite direction B is increasing the task not completing it or you can say B is not eating the chocolates B is putting new chocolates on table)

Now A worked for 4 days means 12 Chocolates finished

Now A and B working together for another 2 days means

$(3+(-8))*2=-10$ means 10 new chocolates added to original 24 which make it as 34 chocolates

now out of 34 12 already consumed remaining 22 chocolates

to be consumed by A alone which means no of days required = $22/3$
Ans

Q15: P takes twice as much time as Q or thrice as much time as R to finish a piece of work. They can finish the work in 2 days if work together. How much time will Q take to do the work alone?

A] 4

B] 5

C] 6

D] 7

P takes twice as much time as Q or thrice as much time as R to finish a piece of work. They can finish the work in 2 days if work together. How much time will Q take to do the work alone?

A] 4 if $Q=4$ $P=8$ $R=8/3$ Working together is not taking 2 Days

B] 5 if $Q=5$ $P=10$ $R=10/3$ working together not taking 2 Days

C] **6** if $Q=6$ $P=12$ $R=4$ so $1/6 + 1/12 + 1/4 = 1/2$ verified Ans

D] 7

Q16: 20 men can finish a piece of work in 30 days. After how many days should 5 men leave the work so that it is finished in 35 days?

A] 5

B] 15

C] 10

D] 12

Apply $M_1 D_1 = M_2 D_2$

Calculate pending Work from options

20 men can finish a piece of work in 30 days. After how many days should 5 men leave the work so that it is finished in 35 days?

- A] 5 20×25 is not equal to 15×30
- B] 15 $20 \times 15 = 15 \times 20$
- C] 10 20×20 is not equal to 15×25
- D] 12 20×18 is not equal to 15×23

Q17: Aditya, Vedus and Yuvraj alone can do a job for 6 weeks, 9 weeks and 12 weeks respectively. They work together for 2 weeks. Then, Aditya leaves the job. Vedus leaves the job a week earlier to the completion of the work. The job would be completed in:

- A] 4 weeks
- B] 5 weeks
- C] 7 weeks
- D] None

Answer A

$$\text{LCM}(6,9,12)=72$$

	Days	Efficiency
Aditya	6	12
Vedus	9	8
Yuvraj	12	6

In first two weeks all work together so $26 \times 2 = 52$ Chocolates consumed

Then last week Yuvraj was working alone he consume further 6 chocolates now number of chocolates left $72 - (52 + 6) = 14$

That means Vedus and Yuvraj work together for 1 week so task will be completed in total 4 weeks

Q18: 3 pumps, working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4 pumps work to empty the tank in 1 day?

A] 8hrs

B] 10hrs

C] 11hrs

D] 12hrs

Answer D

$$M_1 D_1 H_1 = M_2 D_2 H_2$$

$$3 * 8 * 2 = 4 * H * 1$$

Q19: If 18 persons can build a wall 140 m long in 42 days, the number of days that 30 persons will take to complete a similar wall 100 m long, is?

A] 18days

B] 10days

C] 11days

D] 12days

Answer A

$$M1 D1 / W1 = M2 D2 / W2$$

$$18 * 42 / 140 = 30 * D2 / 100$$

Q20: If 4 spiders make 4 webs in 4 days, then 1 spider will make 1 web in how many days?

A] 8days

B] 16days

C] 4days

D] 1/4days

Answer C

Q21: In a dairy farm, 40 cows eat 40 bags of husk in 40 days. In how many days one cow will eat one bag of husk?

A] 1days

B] 160days

C] 80days

D] 40days

Answer D

Q22: A fort had a provision of food for 150 men for 45 days. After 10 days, 25 men left. The number of days for which the remaining food will last?

A] $29 \frac{1}{5}$

B] $37 \frac{1}{4}$

C] 42

D] 54

Answer C

After 10 days the food is available for 150 men for more 35 days same food will be finished by 125 men in how many days

$$M_1 D_1 = M_2 D_2$$

$$150 * 35 = 125 D_2$$

$$D_2 = 42 \text{ days}$$

Q23: On a scale of map, 0.6 cm represents 6.6 km. if the distance between two points is 80.5 cm, the actual distance between them

A] 9 km

B] 72.5 km

C] 190.75 km

D] 885.5 km

Answer D

0.6 cm=6.6 km

1 Cm = 11 km

80 cm = 880 Km

0.5 cm= 5.5 Km

So 80.5 cm= 888.5 Km

Q24: 15 men take 21 days of 8 hours each to do a piece of work. How many days of 6 hours each would 21 women take, if 3 women do as much work as 2 men?

A] 30days

B] 40days

C] 41days

D] None

Answer A

$$15 * 21 * 8 = 6 * D2 * 14$$

$$D2 = 30$$

Q25. A contractor undertook to do a certain piece of work in 6 days. He employed certain number of men, but 4 of them being absent from the very first day, the rest could finish the work in 10 days. The number of men originally employed were:

A] 9

B] 10

C] 11

D] 12

A contractor undertook to do a certain piece of work in 6 days. He employed certain number of men, but 4 of them being absent from the very first day, the rest could finish the work in 10 days. The number of men originally employed were:

A] 9 if 9 then 9×6 is not equal to $(9-4) \times 10$

B] 10 if 10 then $10 \times 6 = (10-4) \times 10$

C] 11

D] 12

Answer B

Q26: In a camp, there is a meal for 90 men or 180 children. If 150 children have taken the meal, how many men will be catered to with the remaining meal?

A] 10

B] 15

C] 18

D] 12

Ans B

Q27: If 3 men or 6 boys can do a piece of work in 10 days, working 7 hours a day; how many days will it take to complete a piece of work twice as large with 6 men and 2 boys working together for 8 hours a day ?

A] 15days

B] $15/2$ days

C] $13/2$ days

D] None

Answer B

Method 1

3 Men = 6 Boys so 6 Men = 12 boys

So 6 men and 2 boys means total $12+2=14$ boys

If 6 boys can do the task in 10 days working 7 hours a day

Then 6 boys can do twice the task in 20 days working 7 hours a day

It means to calculate how many days will 14 boys will take working 8 hours a day apply

$$B_1 D_1 H_1 = B_2 D_2 H_2$$

$$6 * 20 * 7 = 14 * D_2 * 8$$

$$D_2 = 15/2 \text{ Ans}$$

Or Method 2

3M working 7 hours a day takes 10 days

So 1 man working 1 hour a day in 1 day = $1/210$

So work done by 6 men working 8 hours a day in 1 day = $8*6/210=8/35$

Similarly

6 B working 7 hours a day takes 10 days

So 1 boy working 1 hour a day in 1 day = $1/420$

So work done by 2 boys working 8 hours a day in 1 day

$$= 2*8/420=8/210$$

So work done in 1 day when 6 men and 2 boys work together

$$= 8/35 + 8/210$$

$$= 4/15$$

So time taken to do 1 work = $15/4$ days

So time taken to do twice the task = $2 * 15 / 4 = 15/2$ days Ans

Q28: Some persons can do a piece of work in 12 days. Two times the number of such persons will do half of that work in:

A] 3days

B] 9days

C] 12days

D] 2days

Ans A

Q29: 20 men complete $1/3$ of a piece of work in 20 days. How many more men should be employed to finish the rest of the work in 25 more days?

A]10

B]12

C]15

D]20

Answer B

20 men can complete the task in 60 days

After 20 days pending work is left for 40 days of these 20 men

Now pending work = $20 * 40$ same needs to be completed by how many men in 25 days apply $M_1 D_1 = M_2 D_2$

$$20 * 40 = M_2 * 25$$

$$M_2 = 32$$

Since 20 men already working so additional 12 men required Ans

Q30: A ship can be unloaded in 20 days. A contractor appointed 280 persons. After 6 days only $\frac{1}{4}^{\text{th}}$ of the work was done. Find the number of additional men required to finish the job on time.

A] 80 men

B] 90 men

C] 70 men

D] 75 men

Answer A

After 6 days $\frac{1}{4}$ of the work is done

It means working with same speed task will be completed in 24 days

That means 4 days extra

That means 4 days work of 280 persons needs to be completed by how many persons in 14 days (because we need to complete the task in 20 days and 6 days already passed) so apply $M_1 D_1 = M_2 D_2$

$$280 * 4 = M_2 * 14$$

$$M_2 = 80 \text{ Ans}$$

Wages

Q1: Ravi can do a work in 6 days and Rahim can do the same work in 5 days. The contract for the work is Rs. 220. How much shall B get if both of them work together?

- a) 100
- b) 110
- c) 120
- d) None of these

Answer C

		Efficiency
Ravi	6	5
Rahim	5	6

Salary must be divided according to the number of chocolates consumed

220 must be divided in the ratio 5 : 6 so share of B 120 Ans

Q2: A man can do a work in 10 days. With the help of a boy he can do the same work in 6 days. If they get Rs. 50 for the work, what is the share of the boy?

- a) 10
- b) 20
- c) 30
- d) None of these

Answer B

M+B-----6

M-----10

B----- $10 * 6 / 4 = 15$

LCM 30

Efficiency of M and B 3 and 2

So divide 50 in the ratio of 3 : 2

answer = 20 Ans

Q3: A, B and C can do a work in 6, 8 and 12 days respectively. Doing that work together they get an amount of Rs 1350. What is the share of B in that amount?

- a) 420
- b) 430
- c) 450
- d) None of these

Answer C LCM 72 and efficiency A,B,C 12,9,6 respectively so divide 1350 in the ratio of 12:9:6 so share of B=450 Ans

Q4: A, B and C contract a work for Rs. 550. Together, A and B are supposed to do $\frac{7}{11}$ of the work. How much does C get ?

- a) 150
- b) 200
- c) 250
- d) None of these

Answer B

Work to be done by C = $(1 - 7/11) = 4/11$

$\therefore (A + B) : C = 7/11 : 4/11 = 7 : 4$

\therefore C's share = Rs. 550 \times $(4/11)$ = Rs. 200

Q5: Two men undertake to do a piece of work for Rs. 200. One alone could do it in 6 days, the other in 8 days. With the assistance of a boy they finish it in 3 days. How should the money will boy get?

- a) 75
- b) 25
- c) 50
- d) None of these

Answer B

Boy alone can do it in $1 / (1/3 - (1/6 + 1/8)) = 24$ days

So divide 200 in the ratio no of chocolates consumed 4, 3, 1 as LCM (6, 8, 24) = 24

So share of boy = 25 Ans

Q6: A and B undertook to do a piece of work for RS 4500. A alone could do the work in the 8 days and B in 12 Days. With the assistance of C, they finished the work in 4 days. Find C's share?

- a) 2250
- b) 750
- c) 1500
- d) None of these

Answer B

C alone can do it in $1 / (1/4 - (1/12 + 1/8)) = 24$ days

So divide 4500 in the ratio no of chocolates consumed 3, 2, 1 as LCM

$(8, 12, 24) = 24$

So share of boy = 750 Ans

Q7: 12 Men and 6 women can do a piece of work in 14 days, while 8 men and 9 women can do the work in 16 days. if a man gets Rs 54 per day, what should be the wage of a woman per day?

- a) 36
- b) 24
- c) 48
- d) None of these

Answer A

$$(12M + 6W) * 14 = (8M + 9W) * 16$$

$$84M + 42W = 64M + 72W$$

$$20M = 30W$$

$$2M = 3W$$

$$108 = 3W$$

$$36 = W$$

Q8: If the wage of 45 women amount to Rs 15525 in 48 days, how many men must work for 16 days to receive Rs 5750, The daily wage of a man being double of that of a woman?

- a) 25
- b) 40
- c) 15

d) None of these

45 women work for 48 days and get = Rs.15525

45 women work for 1 day and get = Rs 15525/48

1 woman's payment for 1 day = $15525 / (48 \times 45)$

Daily wage of 1 woman = Rs. 115 / 16

Now,

Daily wage of 1 man= $2 \times$ daily wages of 1 woman

$2 \times (115 / 16) = \text{Rs } 115 / 8$

Required number of men = $\text{Rs } 5750 \times (8 / 115) / 16 = 25$ men

Q9: A can do a piece of work in 10 days while B alone can do it in 15 days. They work together for 5 days and the rest of the work is done by C in 2 days. If they get Rs 450 for the whole work, how should they divide the money?

(a) Rs 100, Rs 150, Rs 200

(b) Rs 80, Rs 170, Rs 200

(c) Rs 225, Rs 150, Rs 75

(d) Rs 200, Rs 50, Rs 200

Answer C

A one day work $1/10$

B one day work $1/15$

A+B one day work $(1/10 + 1/15)$

A+B 5 day work $5/6$

Pending work $1 - 5/6 = 1/6$ completed by C in 2 days

Means C can complete the work = 12 days

Ratio of their work $5/10 : 5/15 : 2/12$

$\frac{1}{2} : \frac{1}{3} : \frac{1}{6}$

3 : 2 : 1

Divide 450 in this ratio 225 150 75 ans

Q10: I engaged a man for a certain number of days for Rs 1725. He was absent for 7 days. I paid him Rs 920. What was his daily wage?

(a) Rs 315

(b) Rs 275

(c) Rs 215

(d) Rs 115

Answer D

$$1725-920/7=115$$

Q11: Anu and her friend Radha undertook a piece of work for Rs 1800. Anu alone could do the work in 12 days and Radha in 18 days. With the assistance of Rama, they completed the work in 4 days. Find the share of Anu in the money, if the money is to be shared in proportion to the amount of work done.

(a) Rs 550

(b) Rs 600

(c) RS 650

(d) Rs 800

Answer B

Rama one day work $\frac{1}{4} - \frac{1}{12} - \frac{1}{18} = \frac{1}{9}$

Anu 12 days

Radha 18 days

Rama 9 days

LCM 36 efficiency 3, 2, 4

So divide 1800 in 3:2:4 Anu share 600Ans

Q12: A and B undertook a job for Rs 1400. A can do it alone in 7 days and B in 8 days. With the help of C, they finish the work in 3 days. How should the money be divided?

- (a) RS 600. RS 525. RS 275
- (b) Rs 550, Rs 500, Rs 350
- (c) Rs 630, Rs 490, Rs 280
- (d) None of these

Answer A

Q13: A, B and C completed a piece of work. A worked for 6 days. B for 9 days and C for 4 days. Their daily wages were in ratio of 3 : 4 : 5. Find the daily wage of C, if their total earning was Rs 1480.

- (a) Rs 80

- (b) Rs 75
- (c) Rs 100
- (d) Rs 90

Ans: Rs 100

$$\begin{array}{ccc}
 3x & 4x & 5x \\
 6 & 9 & 4 \\
 18x + 36x + 20x = 1480 \\
 74x = 1480 \Rightarrow x = 20 \\
 5x = 100 \text{ Rs.}
 \end{array}$$

Q14: X alone can finish a piece of work in 10 days while Y alone can do it in 15 days. If they undertook the job for Rs 225, the share of Y would be

- (a) Rs 90
- (b) Rs 100
- (c) Rs 80
- (d) Rs 75

Answer A

Divide 225 in the ratio 3:2

Q15: A sum of Rs 77 was paid for a piece of work which A can do in 10 days, B in 15 days, C in 20 days and D in 25 days. Find the share of C, if all of them worked together.

- (a) Rs 12
- (b) Rs 17
- (c) Rs 15
- (d) Rs 18

Answer C

Divide 77 in the ratio of 30:20:15:12 as LCM is 300

Q16: Ram and Shyam have been given a task of painting a house for Rs. 800. With the help of Rita, they complete the job in just 3 days. Had Ram alone be doing the task, he would need 6 days. If Shyam alone would be doing the task, he would need 8 days. How much money will Rita get?

- a) 80
- b) 150
- c) 125
- d) 100

Answer D

Rita one day work $\frac{1}{3}-\frac{1}{6}-\frac{1}{8}=\frac{1}{24}$

Ram 6

Shyam 8

Rita 24 days

LCM 24 Efficiency 4:3:1 So Rita get 100 Ans

Q17: P and Q together earn Rs. 188 per day. Q and R together earn Rs. 152 per day. P, Q and R when working together earn Rs. 300 per day. How much does Q earn daily?

- a) 43
- b) 56
- c) 45
- d) 40

Ans D

Q18: What will be share of Rajesh, if together Ramesh and Suresh complete only $\frac{7}{11}$ of the task, and all three had been given the contract to finish the task for Rs. 1100?

- a) 350
- b) 400
- c) 250
- d) 650

Answer B Divide 1100 in ratio of 4:7

Q19: P and Q work together on a task for 5 days. They then leave and rest of the task is done by R in just 2 days. All the three together are paid Rs. 450. What will be R's share out of the payment if P alone could do the task in 10 days and Q alone can do the task alone in 15 days?

- a) 100
- b) 75
- c) 225

d) 50

Answer B similar to Q 9

Q20: P and Q work together and get a payment of Rs. 1400. P can complete the work alone in just 30 days. But Q takes 40 days to complete the work alone. What is P's share out of the wages they get?

- a) 800
- b) 600
- c) 100
- d) 700

Divide 1400 in ratio of 4:3 So P share = 800

Q21: Johnny employs 8 workers to work for 6 hours per day. In total he pays them Rs. 630 for a week. How much should Johnny pay 18 workers working 4 hours per day for a week?

- a) 945
- b) 645
- c) 630
- d) 1050

Answer A

$$8/18 * 6/4 = 630/X$$

Q22: P, Q and R get Rs. 10800 for doing a work in 18 days. P and R get Rs. 3760 for doing the same work in 10 days, while Q and R get Rs. 6080 for doing the same work in 20 days. Find the amount received by R per day?

- a) 95
- b) 126
- c) 80
- d) 200

Answer C

$$\text{1day wage of P and R} = P + R = \frac{\text{Rs.}3760}{10} = \text{Rs. } 376$$

$$\text{1day wage of Q and R} = Q + R = \frac{\text{Rs.}6080}{20} = \text{Rs. } 304$$

$$\text{1day wage of P, Q and R} = P + Q + R = \frac{\text{Rs.}10800}{18} = \text{Rs. } 600$$

$$\therefore P + 304 = 600 \longrightarrow \text{Put value of Q+R}$$

$$\therefore P = \text{Rs. } 296$$

$$\therefore R = 376 - P = 376 - 296 = \text{Rs. } 80 = \text{Amount received by R per day}$$

Q23: Wages of 44 women for 56 days comes to Rs.29568. How many men are needed for 47days to receive Rs. 16920, if the daily wages of a man being 5 times those of a woman?

- a) 9
- b) 8
- c) 6
- d) 5

Answer C

$$x/44 * 47/56 = 16920/29568$$

$$X = 30 \text{ Women}$$

$$30 \text{ Women} = 6 \text{ Men}$$

