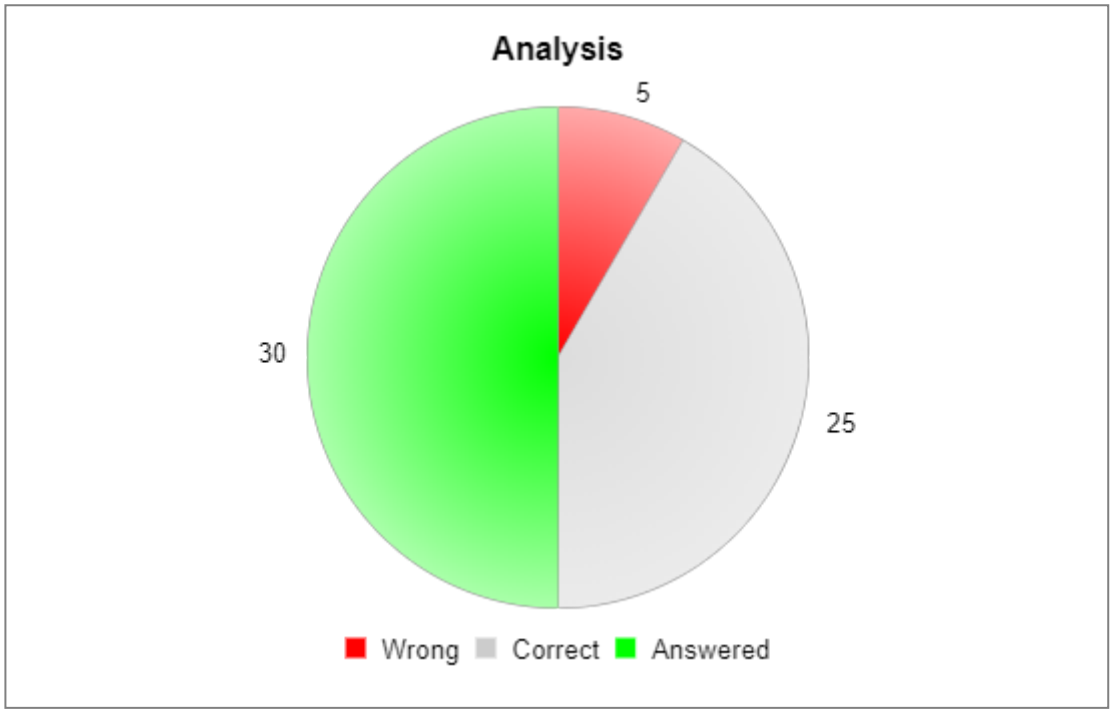
ANALYSIS OF YOUR ANSWER

Question : **30**
Answered : **30**
Unanswered : **0**
Correct : **25**
Wrong : **5**
Score : **64 / 80**
Percentage : **80.00**



Question 1

A contractor employed 30 men to complete the project in 100 days. But later on he realized that just after 25 days only 20% of the work had been completed. How many extra days, than the scheduled time are required?

15 days

20 days

25 days

30 days ✗

Solution :
Ans:3

Exp:
Men * days = Work done
30 *25 = 750 = 20% of the actual work
Now, the work to be done is 4 times than the work done but the number of days is only 3 times.
So, he is required 4 times the number of days, thus he has to work for extra 25 days.

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Question 2

Shyam and Dhiraj undertake to do a piece of work for ` 900. Shyam alone can do it in 12 days while Dhiraj alone can do it in 15 days. With the help of Kundan, they can finish it in 3 days, find the share of Dhiraj?

`224

`220

`180 ✔

`225

Solution :

Ans:3
Exp:

Kundan's 1 day work $= \frac{1}{3} - \left(\frac{1}{12} + \frac{1}{15}\right) = \frac{11}{60}$

ratio of Shyam's 1 day work: Dhiraj's 1 day work: Kundan's 1 day work $= \frac{1}{12} : \frac{1}{15} : \frac{11}{60} = 5:4:11$

Hence, share of Dhiraj $= \frac{4}{5+4+11} \times 900 = 180$

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Question 3

Two persons having different productivity of labour, working together can reap a field in 2 days. If one-third of the field was reaped by the first man and rest by the other one working alternatively took 4 days. How long did it take for the faster person to reap the whole filed working alone?

10 days

8 days

6 days

3 days ✔

Solution :
Ans:4

Exp:
Total efficiency of two persons = 50%
Ratio of efficiencies of first person to the second person = 1 : 2
Therefore, efficiency of the second person = 33.33%
Hence, he will take 3 days to complete the work alone.

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Question 4

The total number of men, women and children working in a factory is 18. They earn Rs. 4000 in day. If the sum of the wages of all men, all women and all children is in the ratio of 18 : 10 : 12 and if the wages of an individual man,, woman and child is in the ratio 6 : 5 : 3, then how much a woman earn in a day?

Rs. 450

Rs. 400

Rs. 300

Rs. 250 ✔

Solution :
Ans:4

Exp:
Ratio of number of men, women and children = 18/6 : 10/5 : 12/3 = 3x : 2x : 4x
Then, 3x + 2x + 4x = 18
Or, x = 2
Therefore, number of women = 4
Share of all women = 10/(18 + 10 +12) *4000 = Rs. 1000
Therefore, share of each woman = Rs. 1000/4 = Rs. 250

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Question 5

Eklavya can do the 6 times the actual work in 36 days while Faizal can do the one-fourth of the original work in 3 days. In how many days will both working together complete the 3 times of the original work?

6 days

10 days

12 days ✓

15 days

Solution :
Ans:3

Exp:
Efficiency of Eklavya = 16.66%
And efficiency of Faizal = 8.33%
Total efficiency of Eklavya and Faizal = 25%
So, they can do the actual work in 4 days
Therefore, 3 times work require = 3*4 = 12 days.

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Question 6

There are 15 pipes that are connected to a tank. Some of them are fill pipes and the other are drain pipes. Each of the fill pipes can fill the tank in 8 hours and each of the drain pipes can drain the tank completely in 6 hours. If all the fill pipes and drains pipes are kept open, an empty tank gets filled in 8 hours. How many of the 15 pipes are drain pipes?

9

6

7 ✖

8

Solution :

Ans:2

Exp:

Let the number of fill pipes=n

number of drain pipes=15−n

Then, $\frac{n}{8}-\frac{15-n}{6}=\frac{1}{8}$

$n=9$

Hence no of drain pipes=15−9=6

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Question 7

There are four varieties

Solution :

of pipes Pipe A, Pipe B, Pipe C and Pipe D. Each pipe can be either an inlet pipe or an outlet pipe but cannot be both. There are five tanks of equal volume. Tank P is filled by Pipe A and Pipe B Tank Q is filled by Pipe A and Pipe C Tank R is filled by Pipe A and Pipe D Tank S is filled by Pipe B and Pipe C Tank T is filled by Pipe C and Pipe D Time taken for the first three tanks (P, Q and R) to get filled are in the

Ans: 3

Exp: Let A, B, C and D do x, y, z and w of work in an hour.
Let A and B fill the tank in 1 hour.
Then A and C fill the tank in 2 hours
and A and D fill the tank in 4 hours

$\Rightarrow x+y=1 \quad -(1)$

$x+z=\frac{1}{2} \quad -(2)$

and $x+w=\frac{1}{4} \quad -(3)$

Now, Let B and C take $7k$ hours
while C and D tahe $10k$ hours to fill the tank

$\Rightarrow y+z=\frac{1}{7k} \quad -(4)$

and $z+w=\frac{1}{10k} \quad -(5)$

Using above equations

$x=\frac{equ(1)+equ(2)-equ(4)}{2}=\frac{equ(2)+equ(3)-equ(5)}{2} \quad -(6)$

$\Rightarrow x=\frac{1+\frac{1}{2}-\frac{1}{7k}}{2} \quad -equ(i)=\frac{\frac{1}{2}+\frac{1}{4}-\frac{1}{10k}}{2} \quad -equ(ii)$

equating (i) and (ii), we get

$\frac{3}{2}-\frac{1}{7k}=\frac{3}{4}-\frac{1}{10k}$

$\Rightarrow k=\frac{4}{70}=\frac{2}{35}$

Now, substituting the value of k in $equ-(6)$, we get

$x=\frac{\left(\frac{3}{2}-\frac{1}{\frac{7\times 2}{35}}\right)}{2} \Rightarrow x=-\frac{1}{2}$

$\Rightarrow x<0$

from $equ-(2)$

$y=1-x=1-\left(-\frac{1}{2}\right)=\frac{3}{2}>0$

from $equ-(3)$

$z=\left(\frac{1}{2}-x\right)>0$

from $equ-(4)$ & (5)

$z=\left(\frac{1}{7k}-y\right)>0 \Rightarrow 1>0$

$w=\left(\frac{1}{10k}-1\right)>0 \Rightarrow \frac{3}{2}>0$

Hence, we get
$x<0,\ y>0,\ z>0,\ w>0$
So, only A pipe is outlet pipe.

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ratio 1 : 2 : 4 and the time taken for S and T tanks to be filled are in the ratio 7 : 10.
Find the outlet pipes among the four varieties.

A and C

A and D

Only A ✔

A, C and D

Question 8

Rahul takes 20 days to reach the point P under normal circumstances. But, due to the increasing hostile weather conditions the distance they travel every day reduces by 20%. In how many days would Rahul reach the point P, taking into consideration weather conditions ?

35 days

42 days

38 days

None of these ✔

Solution :

Ans: 4

Exp: Let the total distance to be covered be 'd' km.

Under normal weather condition distance travelled by each day = $\left(\frac{d}{20}\right)$ km

Then,

on 1^{st} day rahul would travel = $\left(\frac{d}{20}\right)$

on 2^{nd} day rahul would travel = $(0.8)\times\left(\frac{d}{20}\right)$

on 3^{rd} day rahul would travel = $(0.8)\times(0.8)\times\left(\frac{d}{20}\right)$

Now, let rahul will reach the point P in n^{th} day

$\Rightarrow \left(\frac{d}{20}\right)+(0.8)\times\left(\frac{d}{20}\right)+(0.8)^2\times\left(\frac{d}{20}\right)+(0.8)^3\times\left(\frac{d}{20}\right)+------+(0.8)^n\times\left(\frac{d}{20}\right)=d$

This is a geometric progression series

using sum of n^{th} series

$S=\frac{a(1-r^n)}{(1-r)}$

where $a \rightarrow$ first term

$r \rightarrow$ common ratio

$S=\frac{d}{20}\times\left(\frac{1-(0.8)^n}{1-0.8}\right)=d$

$\Rightarrow \frac{1-(0.8)^n}{20\times(0.2)}=1$

$\Rightarrow 1-(0.8)^n=4$

$\Rightarrow (0.8)^n=-3$

where, $(0.8)^n>0$

Thus, it is never equal to (-3)

Therefore, rahul will never reach the point P.

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Question 9

3 men and 5 women together can finish a job in 3 days. Working on the same job 3 women take 5 days more than the time required by 2 men. What is the ratio of efficiency of a man to a woman?

2 : 1

3 : 2

5 : 2 ✔

4 : 1

Solution :
Ans:3

Exp:
Efficiency of 3 men and 5 women = 33.33%
Required number of days by 2 men = x
Therefore required number of days by 3 women = x + 5
Now, consider option (c)
Therefore,

3M + 5W = 3M+ 2M = 5 men

Therefore, efficiency of a man = 6.66%
Hence, a man needs 15 days to finish the job, working alone.
Again,

3M + 5W = 7.5W + 5W = 12.5W

Therefore, efficiency of a woman = 2.66%
Therefore, a woman needs 37.5 days
Thus, 2 men needs 7.5 days to work alone
And 3 women needs 12.5 days to work alone
Hence, the difference in number of days = 5 which is same as given in the problem.
Hence correct option is (c).

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Question 10

It takes six technicians a total of 10 hr to build a new server from Direct Computer, with each working at the same rate. If six technicians start to build the server at 11 am, and one technician per hour is added beginning at 5 pm, at what time will the server be completed? 6.40 pm 7 pm 7.20 pm 8 pm ✔	**Solution :** **Ans : (4)** **Exp:** **Total amount of work = 60 man-hours** **From 11 am to 5 pm, 6 technicians = 36 man-hours** **From 5 pm to 6 pm, 7 technicians = 7 man-hours** **From 6 pm to 7 pm, 8 technicians = 8 man-hours** **From 7 am to 8 pm, 9 technicians = 9 man-hours** **Total = 60 man-hours** Report An Error **PREPARE FOR THIS TOPIC** **(https://www.btechguru.com/PlacementReadyOnline/keywords1.php?bid=16a2f6bfd73099f2&sid=42612318479d1873&bn=Quantitative-Aptitude&videoID=2871&keywordID=bb630f882092ae96&type=Text&MID=0#play)**

Question 11

A and B can do a work in12 days, B and C in 15 days, C and A in 20 days.If A,B and C work together, they will complete the work in how many days?

11 days

12 days

10 days

13 days

Solution :
Ans :3

Exp:

(A+B)'s one day's work=1/12;
(B+C)'s one day's work=1/15;
(A+C)'s one day's work=1/20;
Adding we get 2(A+B+C)'s one day's work
=1/12+1/15+1/20=12/60=1/5
(A+B+C)'s one day work=1/10
So, A,B,and C together can complete the work in 10 days.

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Question 12

P, Q, R can complete a job in 7 days, 10 days and 15 days respectively. They work together and complete the job. If the total wage is Rs.6500. Find Q's wage.

Rs. 2800

Rs. 1800

Rs. 2400

Rs. 2100 ✔

Solution :

Ans: 4

Exp: Ratio of wages of P, Q, R = Ratio of work done by P, Q, R = Ratio of the work done per day

Ratio of the work done per day =

$$\frac{1}{7}:\frac{1}{10}:\frac{1}{15}=30:21:14$$

$$Q's \text{ will be} = \frac{21}{65}\times 6500 = Rs.2100$$

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Question 13

12 women and 8 girls can do a work in 16 days. 13 women and 4 girls can do the same work in 18 days. How many days 3 women and 12 girls can finish the same work?

- 20
- 24
- 16 ✗
- 18

Solution :
Ans: 2
Explanation:
Let the work done by a woman in 1 day = x

Let the work done by a girl in 1 day =y
Then, 12x + 8y =1/16

13x + 4y =1/18
on solving the above two equations we have X=1/288 and Y =1/384
so, 3 women and 12 girls can do work in 1 day =3/288 + 12/384
=1/96 + 1/ 32 = 4/96
=1/24
Or 3 women and 12 girls can finish the work in 24 days.

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Question 14

10 men and 15 women can do a work in 6 days. One men alone finishes the work in 100 days. In how many days 5 women can complete the work.

- 225 days ✗
- 90 days
- 45 days
- Cannot be determined

Solution :

Ans:3
Exp:
1 men=100 days

$$1 \text{ day work men} = \frac{1}{100}$$

$$10 \text{ men} + 15 \text{ women} = \frac{1}{6}$$

$$10\left(\frac{1}{100}\right) + 15\left(\frac{1}{x}\right) = \frac{1}{6}$$

$$\frac{15}{x} = \frac{1}{6} - \frac{1}{10} = \frac{4}{60}$$

$$x = 225$$

1 women can do in 225 days

$$5 \text{ women can do in } \frac{225}{5} = 45 \text{ days}$$

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Question 15

A water tank is filled completely by two taps T1 and T2 in 9 and 12 minutes respectively. After 2 minutes of working of T1 other tap T2 also started working. How much time still both the taps take to fill the tank?

4 minutes

5 minutes

6 minutes

3 minutes

Solution :
Ans: 1
Explanation:
The part of the tank that can be filled in 1 minute by two pumps
= 1/9 +1/12 =7/36
The part of tank filled by T1 tap alone in 1 minute =1/9
The part of tank filled by T1 tap alone in 2 minutes =2/9
So, the part of tank still to be filled = 1-2/9 =7/9
Now, 7/36 part of tank is filled by two taps in 1 minute.
7/9 part of tank will be filled by two taps = 7/9 *36/7 = 4 minutes.

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Question 16

A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?

- 1/5
- 1/6 ✔
- 1/2
- 1/3

Solution :
Ans: 2
Given that B alone can complete the same work in days=half the time taken by A=9days
A's one day work=1/18
B's one day work=1/9
(A+B)'s one day work=1/18+1/9=1/6

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Question 17

Wind blows 160 miles in 330min.for 80 miles how much time required ?

- 165 min ✔
- 162 min
- 164 min
- 166 min

Solution :
Ans :1,
Sol:

160 miles= 330 min
1 mile = 330/160
80 miles=(330*80)/160=165 min.

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Question 18

A,B and C can do a piece of work in 20,30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?

15 days ✔

10 days

18 days

20 days

Solution :
Ans: 1
A's two day's work=2/20=1/10
(A+B+C)'s one day's work=1/20+1/30+1/60=6/60=1/10
Work done in 3 days=(1/10+1/10)=1/5
Now, 1/5 work is done in 3 days
Therefore, Whole work will be done in (3*5)=15 days.

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Question 19

X and Y can do a piece of work n 20 days and 12 days respectively. X started the work alone and then after 4 days Y joined him till the completion of work. How long did the work last?

- 11 days
- 10 days ✔
- 12 days
- 13 days

Solution :
Ans:2

Exp:
Work done by X in 4 days = (1/20)*4= 1/5
Remaining work = (1- 1/5) = 4/5
(X + Y)'s 1 day's work = (1/20 +1/12) = 8/60 = 2/15
Now, 2/15 work is done by X and Y in 1 day.
So,4/5 work will be done by X and Y in (15/2) * (4/5) = 6 days
Hence, total time taken = (6 + 4) days = 10 days.

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Question 20

If 9 men working 6 hours a day can do a work in 88 days. Then 6 men working 8 hours a day can do it in how many days?

- 86 days
- 99 days ✔
- 121 days
- 132 days

Solution :
Ans: 2
From the above formula
i.e (m1*t1/w1)=(m2*t2/w2)
so (9*6*88/1)=(6*8*d/1)
on solving, d=99 days.

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Question 21

A builder decided to complete the job in 40 days for which he employed 25men. After 10 days he realised the job cannot be completed on time. Hence he employed 10 more men for the rest 30 days and completed the job on time. Find the number of extra days it would have taken had he not employed additional men.

- 12 days ✔
- 18 days
- 20 days
- 24 days

Solution :
Ans: 1

Exp: Number of man days required to complete the job = 10x25 + 30x35 = 1300
If additional men are not employed then, number of days will be = 1300/25 = 52days
Extra days = 52 – 40 = 12days.

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Question 22

P can do a piece of work in 30 days while Q alone can do it in 40 days. In how many days can P and Q working together do it?

17 (1/7) ✔

27 (1/7)

42 (3/4)

70

None of these

Solution :

Ans: 1

Exp:

P's 1 day work = $\frac{1}{30}$ and

B's 1 day work = $\frac{1}{40}$

(P + Q)'s 1 day work = $\frac{1}{30} + \frac{1}{40} = \frac{7}{120}$

both together will finish the work in

$\frac{7}{120} = 17\frac{1}{7}$ days

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Question 23

If 3 men and 5 women can do a piece of work in 18 days while 16men and 20women can do the same work in 4days? Find the time taken by 8men and 10women.

- 12 days
- 16 days
- 15 days
- 8 days ✔

Solution :
Ans: 4

Exp:
Let the work done per day by one man be m and for one woman be w.
3m+5w=1/18
16m+20w = 1/4
4m=1/36 ; m=1/144
5w = 1/18 – 1/48 =5/144; w=1/144
Work done per day by 8 men and 10 women
Hence the time taken is 8 days.

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Question 24

10 pipes of the same size fill a tank in 24 minutes. If 2 pipes go out of order, how much will the remaining pipes take to fill the tank?

40 min

45 min

20 min

30 min ✔

Solution :

Ans: 4

Exp:

Lesser pipes, more the time
so, using increase relation we get
$10 \times 24 = 8 \times 2x$

$$x = \frac{10 \times 24}{8}$$

$$= \frac{240}{8} = 30$$

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Question 25

54 men, all working at the same rate, can do a piece of work in 90 days. If after 62 days, 18 men leave, how many days will the remaining men take to complete the work?

53

45

42 ✔

21

Solution :

Ans: 3

Exp:

Let remaining work be completed in x days. Then, we get

54 × 90 = 54 × 62 + (54 – 18) × x

x = 42 days

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Question 26

10 cows or 20 sheep can graze the grass in 15days. In how many days can 20cows and 10 sheep graze the grass?

- 3 days
- 5 days
- 7 days
- 6 days ✓

Solution :

Ans: 4

Exp:10 cows can graze 1/15th of the grass in one day.

1 cow can graze 1/150th of the grass in one day.

20 sheep can graze 1/15th of the grass in one day.

1 sheep can graze 1/300th of the grass in one day.

Hence;

$$20\times\frac{1}{150}+10\times\frac{1}{300}$$

$$\frac{2}{15}+\frac{1}{30}=\frac{1}{6}$$

Together 20 cows and 10 sheep can graze the grass in 6 days.

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Question 27

Sahil is thrice as fast as Sapna and hence takes 20 days less than Sapna to complete a job. Find the time taken by Sahil and Sapna together to complete a job.

- 8 days
- $6\frac{1}{2}$ days
- $7\frac{1}{2}$ days ✓
- 9 days

Solution :

Ans: 3

Exp: Let the time taken by Sahil to complete the job be n

Time taken by Sapna to complete the job will be 3n.

Hence n=3n-20; n=10 and 3n=30

Work completed together in one day will be

$$\frac{1}{10}+\frac{1}{30}=\frac{4}{30}=\frac{2}{15}$$

Number of days = 15/2 = 7 ½ days

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Question 28

A and B working separately can do a piece of work in 9 and 12 days respectively. If they work for a day alternately, A beginning, in how many days the work will be completed?

- 10 1/2
- 10 1/3
- 10 1/4 ✔
- 10 2/3

Solution :
Ans: C

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Question 29

Manju and Lalit are working on an assignment. Manju takes 4 hours to type 16 pages while Lalit takes 6 hours to type 30 pages. How much time will they take if they work together on two different systems to type an assignment of 225 pages?

- 1 day 1 hr ✔
- 1 day 4 hrs
- 2 days
- 1 days 8 hrs

Solution :
Ans: 1

Exp: No of pages typed in one hour by Manju = 16/4 = 4 pages.
No of pages typed in one hour by Lalith = 30/6 = 5 pages.
Together in one hour, they can type = 9 pages.
Time taken to type 225 pages = 225/9 = 25 hours = 1 day and 1 hour.

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Question 30

Machines A and B produce 8000 clips in 4 and 6 hours respectively. If they work alternately for 1 hour, A starting first, then 8000 clips will be produced in : 4 1/3 hrs 4 2/3 hrs ✔ 5 1/3 hrs 5 2/3 hrs	**Solution :** **Ans: B** Report An Error **PREPARE FOR THIS TOPIC** **(https://www.btechguru.com/PlacementReadyOnline/keywords1.php?bid=16a2f6bfd73099f2&sid=42612318479d1873&bn=Quantitative-Aptitude&videoID=2871&keywordID=bb630f882092ae96&type=Text&MID=0#play)**

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044-42106752 / +91-9003106272
044-24321077 / +91-9600002211
9.30AM - 07.30PM
Questions? info@btechguru.com (mailto:info@btechguru.com)