	2026_PSTI_Time and work_weekly assessment I
Test Sur	nmary
• No. of Se	ections: 2
No. of Qu	uestions: 30
Total Dui	ration: 60 min
	Section 1 - MCQ
Section	Summary
	lo. of Questions: 20
	puration: 30 min
_	
Addit	ional Instructions:
None	
Q1.	A certain number of men can do a piece of work in 40 days. Had there been 8 more men, it would have finished 10 days earlier.
	How many men were there?
	40
	30
	24
	24
	22
Q2.	Paul finishes 3/10 of a work in 6 days and then finishes the remaining work the assistance of Peter in 6 days. In what time can
QZ.	Peter alone finish the same work?
	6
	20
	7
	15
Q3.	A and B together can do a piece of work in 7 days. If A does twice as much work as B in a given time, then how long A alone would
	take to do the work?
	20

14

10.5

	12
Q4.	A can do a piece of work in 6 days for which B takes 8 days. C takes as long as A and B would take working together. How long will it take B and C to complete the work together?
	25/7
	12/5
	24/7
	27/4
Q5.	A and B together can do a piece of work in 4 hours which A alone can do in 12 hours. In what time could B alone do it?
	8 hours
	9 hours
	6 hours
	5 hours
Q6.	A and B working together can do a piece of work in 6 days. B alone can do it in 8 days. Supposing B works at it for 5 days, in how many more days A alone could finish it?
	9
	15
	8
	7.5
Q7.	A is twice as good a workman as B; and together they finish a work in 14 days. In how many days can it be done by each separately?
	22, 44
	35, 70
	28, 56

	21, 42	
Q8.	A and B can complete a task in 30 days while working together. After A and E away and A, all by himself completes the task in the next 28 days. Had A bee him to complete the task?	
	$44\frac{4}{19}$	
	28 19 30	
	19 14 15	
	$4\frac{19}{48}$	
Q9.	Rahul does half as much work as Sameer in three fourth of the time.Both tak alone will take to complete the same job?	e 12 days to complete a job. How much time Sameer
	10	
	24	
	20	
	18	
Q10.	If 20 men complete one-third of a piece of work in 20 days, how many more in 25 days?	men should be employed to finish the rest of the work
	32	
	12	
	26	
	16	
Q11.	A can copy 75 pages in 25 hours. A and B together can copy 135 pages in 27	hours. In what time can B copy 42 pages?
	21	
	42	

	8.4	
	14	
Q12.	A, B and C can do a piece of work in 6, 12 and 24 days respectively. In what time wil	I they all together do it?
	15 days	
	10 days	
	12 days	
	3 (³ / ₇) days	
Q13.	There is sufficient food for 500 men for 40days. After 10days, 200 men leave the last for the rest of the men?	place. How many days will the rest of the food
	50	
	75	
	80	
	60	
Q14.	A and B working together could mow a field in 28 days and with the help of C they c C take by himself?	ould have mowed it in 21 days. How long would
	63	
	42	
	84	
	56	
Q15.	A and B together can do a piece of work in 4 4/5 days, B and C together can do it i long would A and C together take to do it?	n 8 days and A, B and C together in 4 days. How
	8 days	
	6 days	
	12 days	

	24 days	
Q16.	If one man or two women or three boys can finish a work in 66 days, then how many together take to finish the same work?	days will one man, one woman and one boy
	32 days	
	36 days	
	28 days	
	33 days	
Q17.	If A takes half as long to do a piece of work as B takes and if C does it in the same t together would take 7 days, then how long would each take separately?	ime as A and B together and if all three working
	21, 42, 14	
	14, 35, 21	
	14, 42, 49	
	42, 35, 49	
Q18.	A can do a piece of work in 20 days and B can do it in 30 days. How long would they	take to do it working together?
	12 days	
	25 days	
	15 days	
	18 days	
Q19.	1 man and 5 women are able to complete a piece of work in 20 days. Same amount the number of days required by 5 men and 1 woman to complete the same work.	of work is completed by 4 men in 8 days. Find
	8	
	6.25	

Q20.	If 5 men with 7 boys can earn Rs.127.50 in 6 days and 2 men with 3 boys can earn Rs.35 in 4 days, then find the time in which 7 men with 6 boys will earn Rs.750?
	25
	15
	20
	30
	Section 2 - Fillups
• N	Summary o. of Questions: 10 uration: 30 min
Additi None	onal Instructions:
Q1.	10 women can do a piece of work in 6 days, 6 men can do same work in 5 days and 8 children can do it in 10 days. What is the ratio of the efficiency of a woman, a man and a child respectively?
Q2.	A and B can do a certain piece of work in 18 days, B and C can do it in 12 days and C and A can do it in 24 days. How long would each respectively take to do it working separately?
Q3.	Rahul does half as much work as Sameer in three fourth of the time. If both take 12 days to complete a job, how much time will Sameer alone take?
Q4.	Reenu can do a work in 15 days. Reenu and Meenu together can do the same work in 10 days. If they got Rs. 600 for that work, find the share of Reenu and Meenu respectively.
Q5.	The work done by a man, a woman and a child is in the ratio of 3:2:1. There are 20 men, 30 women and 36 children in a factory. Their weekly wages amount to Rs.780, which is divided in the ratio of work done by the men, women and children. What will be the wages of 15 men, 21 women and 30 children for 2 weeks?
Q6.	If 6 BSF or 10 CRPF companies can demolish a hideous terrorist outfit in Kashmir in 2 days, then how long will 4 BSF and 9 CRPF companies take to do the same?
Q7.	A and B can do a certain piece of work in 18 days, B and C can do it in 12 days and C and A can do it in 24 days. How long would each respectively take to do it working separately?

A and B can do a piece of work in 12 days and B and C can do it in 15 days. If all the three work together, it can be finished in 10

10

Q8.

Q1 24

Solution

Suppose there were x men who can finish the job in 40 days,

so that one man can do it in 40x days.

Again if there were (x + 8) men,

they can do it in 40 - 10, i.e., in 30 days.

So that one man can do it in $(x + 8) \times 30$ days.

$$=> 40x = 30 \times (x + 8)$$
 or $10x = 240$

x = 24 men.

Q2 15

Solution

Since Paul completes 3/10 work in 6 days

. \therefore he can complete the work in 20 days.

If Peter takes X days,

then for 7/10th of the work they will together take 7/10(20x / 20 + X) = 6

X = 15 days.

Q3 10.5

Solution

If A takes X days, B takes 2X days

1/X + 1/2X = 1/7

=> X=10.5 days. A and B----> 7 days Efficiency of A= 2 unit and B= 1 unit Total work= 7(1+2)= 21 units Now A alone can complete the work in 21/2= 10.5 days 12/5 Solution 1/C = 1/6 + 1/8=> C = 24/7 days. 1/B + 1/C =1/X =>1/8 + 7/24 = > X = 12/5 days.6 hours **Solution** Efficiency A + B = 4 hours - 3 unit/hourA = 12 hours - 1 unit/hour Total work = 12 units B = 2 units/hour

Solving we get,

Q4

Q5

Q6 9

Solution

Time = 12/2 = 6 hours

1/8 + 1/A = 1/6 => A = 24days.

When B works for 5 days, he finishes 5/8 of the work.

Remaining 3/8 of the work can be done by A in $(3/8) \times 24 = 9$ days.

A&B-> 6 days

B-> 8 days

LCM= Total work = 24 units.

A&B 's efficiency= 24/4= 4 units

B's efficiency= 24/8= 3 units . Hence A's efficiency = 1 unit.

B worked for 5 days= 5*3= 15 units is completed.

Now A will finish the remaining work in (24-15)/1 = 9 days.

Q7 21, 42

Solution

$$1/X + 1/2X = 1/14$$

=> X = 21 days.

$$2X = 42 \text{ days}$$

=> A takes 21 days and B takes 42 days

Let Efficiency of A= 2 units and B= 1 unit.

A+B= 14*3= 42 units = Total work

A= 42/2= 21 days B= 42/1= 42 days

Q8 $44\frac{4}{19}$

Solution

According to the given question

Therefore A's efficiency= 19 units and B's efficiency = 9 units.

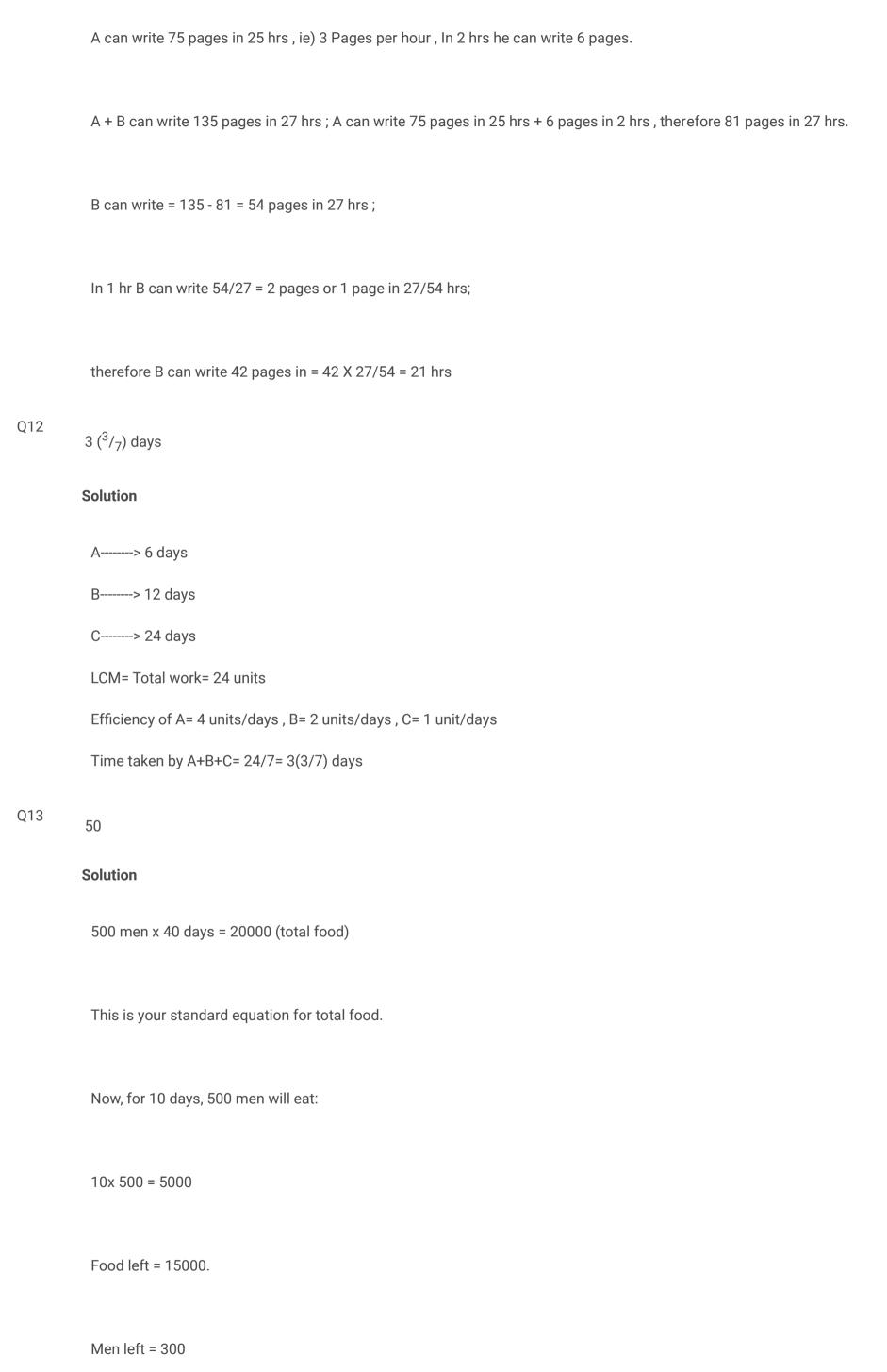
Total work = 30*(19+9) = 840 units
.=> Now A alone can do it in 840/19=44 ^{4/19} days
20
Solution
If Sameer takes D days to do a job,
Rahul will take 2 × 3/4 D days to do the same job (= 3 D/2 days).
In 1 day, they both do 1/12 of the job.
=> Sameer's one day's job + Rahul's one day's job,= 1/D + 2/3D = 1/12
=> D = 20 days.
12
Solution
20 men takes 20days to complete 1/3 of the work i.e 20 * 20 = 400 (1/3 of the work)
X men takes 25 to complete (2/3) of the work i.e $X * 25 = 800$ (2/3 of the work)
X = 800/25 => X = 32.
More men to be employed = $(32 - 20) = 12$
21
Solution
By unit method
A can copy 3 pages in a hour (75/25)
A+B can copy 5 pages in a hour (135/27)
B can copy 2 pages in a hour

Q9

Q10

Q11

so B will take 21 hours to copy 42 pages



300 x no. Of days = 15000

No. Of days = 15000/300

= 50

Q14 84

Solution

$$1/21 - 1/28 = 1/C$$

=> C = 84 days.

Q15 6 days

Solution

B+C ----> 8 days = 3

A+B+C ---> 4 days = 6

Total work= 24 units

A= 3, B= 2, C= 1

A+C = 24/4 = 6 days

Q16 36 days

Solution

1 man = 66 days

2 women = 66 days

3 boys = 66 days

Let total work= 66 units

Efficiency of man= 66/66= 1 unit

Efficiency of 2 women= 66/66= 1 unit

Efficiency of 1 women= 0.5 unit= 1/2 unit

Efficiency of 3 boys = 66/66= 1 unit

Efficiency of 1 boy= 1/3 unit

Overall efficiency of One man, One women and 1 Boy= 1 + 1/2 + 1/3 = (6+3+2)/6 = 11/6

They will complete the work in 66/(11/6) = 36 days

Q17 21, 42, 14

Solution

1/X + 1/2X + (1/X + 1/2X) = 1/7.

$$\Rightarrow 1/X + 1/2X = 1/14 \Rightarrow X = 21.$$

=> A takes 21 days, B takes 42 days, and C takes 14 days.

Q18 12 days

Solution

A-----> 20 daysB-----> 30 daysLCM= 60 units.

Calculating their efficiencies, A= 3 unit/day, B= 2 unit/day,

Time taken by A+B to complete the work = 60/5= 12 days

Q19 6.25

Solution

1M + 5W = 20 days = 8 units/day

4M = 8 --> 1M = 32 days = 5 units/day

Total work =160 units M = 5 units/day, W = 3/5 units/day

5M + 1W = 160/((5*5)+(3/5)) = 6.25 days

From the given data,

20 Men + 100 Women= 32 Men

12 Men= 100 Women

3 Men= 25 Women

Lets take efficiency of Men= 25 units and efficiency of Women= 3 units

Now total work= 32 Men= 32*25= 800 units

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Time taken will be 800/128= 6.25 days
  30
  Solution
   5 men + 7 boys earn Rs.127.50 in 6 days.
   5 men + 7 boys earn Rs.21.25 in 1 day .... (i)
   2 men + 3 boys earn Rs.35 in 4 days.
   2 men + 3 boys earn Rs.8.75 in 1 day .... (ii)
   Multiply (i) and (ii) by 2 and 5 respectively so that th the relations may become same.
   10 men + 14 boys earn Rs.42.50 in 1 day ..... (iii)
   10 men + 15 boys earn Rs.43.75 in 1 day .... (iv)
   Subtracting (iii) from (iv), we get 1 boy earns Rs.1.25 in 1 day.
   From (i), 5 men earn Rs.12.50 in 1 day.
   => 1 man earns Rs.2.50 in 1 day.
   => 7 men + 6 boys earn Rs.25 in 1 day.
   => 7 men + 6 boys earn Rs.750 in 30 days.
Section 2 - Fillups
    4:8:3
  Solution
   144, $\frac{144}{7}$, $\frac{144}{5}$
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Now combined efficiency of 5 Men and 1 Women= 5(25) + (3)= 128

Q20

Q1

Q2

Solution

Q3	20
	Solution
Q4	Rs400,Rs200
	Solution
Q5	Rs.1170
	Solution
Q6	1.28 days
	Solution
Q7	144, 144/7, 144/5
	Solution
Q8	20 days
	Solution
Q9	0
	Solution
Q10	5:3
	Solution