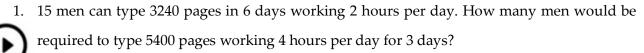


Time and Work

Model 1: Basic



- 1) 10
- 2) 16
- 3) 12
- 4) 25
- 5) None of these
- 2. If 5 workers collect 60 kg wheat in 3 days, how many kilogram of wheat will 8 workers collect in 5 days?
 - 1) 80 kg
- 2) 100 kg
- 3) 120 kg
- 4) 160 kg
- 5) None of these
- 3. 50 people consume 350 kg of rice in 30 days. In how many days will 35 people consume 50 kg of rice?
 - 1) 2 days
- 2) 3days
- 3) 56 days
- 4) 7 days
- 5) None of these
- 4. 4 men work 12 hours daily to complete a work in 9 days. If 16 men work 2 hours a day, in how many days will the work be completed?
 - 1) 4.5 days
- 2) 18 days
- 3) 13.5 days
- 4) 27 days
- 5) None of these
- 5. 15 labours complete a work in 10 days working 6 hours per day, If 18 labours are employed on that work and the work is to be completed in 5 days, then how many hours per day should the work be continued?
 - 1)8
- 2)10
- 3) 12
- 4) 9
- 5) None of these



2

6.	18 children can d	lo a piece of wo	ork in 12 days.	How many chi	ldren would be required to do
	the same work in	8 days?			
	1) 12	2) 18	3) 24	4) 27	5) None of these
-	T(10 1	1 .	26.1 (1.1)	1 1	0 1 11 : 12
7.		•	•	•	ays can 9 men do the same job?
	1) 36	2) 72	3) 48	4) 90	5) None of these
8.	If 15 boys can fi	nish a piece o	f work in 12 d	lavs of 8 hours	s a day, then how long will it
2	take for 16 boys t	-		•	,
9	1) 3.33 days	2) 6.66 days	3) 10 days	4)15 days	5) None of these
	, ,	, ,	, ,	, ,	,
9.	30 men can do a j	piece of work i	n 6 days. How	many men woı	ald be required to do twice that
	work in 20 days?				
	1) 5	2) 6	3) 18	4) 9	5) None of these
М	odel 2: Time to f	inish the giv	en Work		
10	A. D. 1.C. (1	ć 1: 10 1	F 1.20 1	e: 1 TT 1
10.		-		•	respectively. How many days
り	will be required i		O	O	
	1) 5	2) 6	3) 7	4) 8	5) None of these
4.4	0 1 1 1	1.	1 : 20 1	7 1:1 1	1 20.1
11.		•	•	. 0	e completes it in 30 days. How
	many days will b	•		C	
	1) 12 days	2) 24 days	3) 25 days	4)10 days	5) None of these



- 12. Gopal can complete a work in 8 hours and Jai can complete it in 5 hours. How much time will be required if both of them work together?
 - 1) 6.5 hours

- 2) 2 1/13 hours
- 3) 3 1/13 hours

4) 4 1/13 hours

- 5) None of these
- 13. A, B and C can finish a piece of work in 8, 12 and 24 days respectively. In how many days can they finish the work if all of them work together?
 - 1) 10 days
- 2) 8 days
- 3) 6 days
- 4) 4 days
- 5) None of these
- 14. B and C together can complete a work in 8 days, A and B together can complete the same work in 12 days, and A and C together can complete the same work in 16 days. In how many days can A, B and C together complete the work?
 - 1) $3\frac{9}{13}$
- 2) $7\frac{5}{13}$ 3) $7\frac{5}{12}$ 4) $3\frac{5}{12}$
- 5) None of these
- 15. Father and Son can together finish a work in 3 days. Father alone can finish it in 5 days. How many days will the Son alone take to finish the work?
 - 1) 5 days
- 2) 7.5 days
- 3) 9 days
- 4)10 days
- 5)None of these
- 16. 12 men can complete a work in 6 days. 8 women can do it in 12 days. If 6 men and 8 women are employed together, how many days will be required to finish the work?



- 1) 8 days
- 2) 6 days
- 3) 12 days
- 4) 9 days
- 5) None of these
- 17. 10 men can complete a piece of work in 15 days and 15 women can complete the same work in 12 days. If all the 10 men and 15 women work together, in how many days will the work get completed?
 - 1) 6
- 2) 6.33
- 3) 6.66
- 4) 7.66
- 5) None of these



18.	10 women can complete a work in 7 days and 10 children take 14 days to complete the work.										
	How many days	will 5 women a	and 10 children	take to comple	ete the work?						
	1) 3		2) 5		3) 7						
	4) Cannot be dete	ermined	5) No	ne of these							
19.	. 3 men or 7 wome	en can do a pie	ce of work in 3	2 days. Find th	ne number of days required by						
	4) Cannot be determined 5) None of these 19. 3 men or 7 women can do a piece of work in 32 days. Find the number of days required 5 men and 7 women to do a piece of work twice as large. 1) 29 days 2) 31 days 3) 24 days 4) 19 days 5) None of these Model 3: Work = Men X Days 20. A work is started by 15 people. After 5 days, 5 more people accompanied them to finish										
	1) 29 days	2) 31 days	3) 24 days	4) 19 days	5) None of these						
Me	odel 3: Work = N	len X Days									
		-									
20. A work is started by 15 people. After 5 days, 5 more people accompanied them to finish the											
•)	work in next 10 days. How many people should have started the work to finish it in 11										
_	days?										
	1) 24	2) 22	3) 20	4) 25	5) None of these						
21.	. A garrison of 1	1500 men is p	provisioned fo	r 60 days. Af	fter 25 days, the garrison is						
	reinforced by 500	men. How lor	ng will the rema	aining provision	ns last?						
	1) 24 days	2) 21.75 days	3) 26.25 days	4) 52 days	5) None of these						
22.	. 24 men can comp	olete a work in	16 days. The sa	me work can b	be completed by 8 women in 72						
(lacktriangle)	days, whereas 24	children take	32 days to com	plete it. If 10 m	en, 15 women, and 24 children						
_	work together, in	how many da	ys can the worl	k be completed	?						
	1) 18	2) 8	3) 22	4) 12	5) None of these						



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_		1
(▶)
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23. 12 men and 18 women can complete a work in 6 days whereas 12 women can complete the work in 18 days. 4 days after they started the work 4 men left, how many days will the remaining people take to complete the remaining work?

- 1) 2.4
- 2) 4
- 3) 3
- 4) 5
- 5) None of these

24. 8 men and 4 women can complete a piece of work in 6 days. The work done by a man in one day is double the work done by a woman in one day. If 8 men and 4 women started working and after 2 days 4 men left and 4 new women joined, in how many more days will the work will be completed?

- 1) 5 days
- 2) 8 days
- 3) 6 days
- 4) 4 days
- 5) 9 days

25. A father can finish a work in 8 days. After working for 3 days, his son joined him and the remaining work got finished in next 1 day. If son works alone, how many days does he take to finish the work?

- 1)8
- 2) 2
- 3) 4
- 4) 32
- 5) None of these

26. A can do a piece of work in 24 days and B in 30 days. A worked for 6 days and then B also joined him. In how many days will the whole work be completed?

- 1) 12 days
- 2) 14 days
- 3) 15 days
- 4) 16 days
- 5) None of these

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

- 1) 6 days
- 2) 10 days
- 3) 15 days
- 4) 20 days
- 5) None of these



28.	A and B	can do a	piece c	of work	in 45	days	and 4	40 day	s respe	ctively. T	hey b	egan to d	0
	the work	c together	but A	leaves	after	some	days	and	then B	complete	ed the	remainin	ıg
	work in 2	23 days. A	fter how	many o	days d	lid A l	eave t	he wo	ork?				

- 1) 6
- 2) 8
- 3)9
- 4) 12
- 5) None of these

29. 5 men and 6 boys finish a piece of work in 4 days; 4 men and 3 boys in 6 days. In how many days would 3 men and 6 boys finish the same work?

- \odot
- 1) 5 days
- 2) 36/7 days
- 3) 4 days
- 4) 29/7 days
- 5) None of these
- 30. Sejal alone can complete a task in 12 days. She works alone for 4 days. She completes the remaining work in 4 days with the help of her colleague. How many days will the colleague alone take to complete the task?
 - 1)9

2) 12

3) 10

- 4) Cannot be determined
- 5) None of these

Model 4: Change in Workforce/Capacity

31. 6 typists can do a piece of work in 8 hours. If 3 more typists whose working speed is double the earlier typists join together, then the work will be finished in how many hours?

- U 1
 - 1) 6 hours

2) 5 hours

3) 4 hours

4) Data inadequate

5) None of these



32. 8 workers can do a work in 12 days. Two more workers whose efficiency is double than t	he
earlier ones join them, in how many days they will be able to finish that work?	

1) 6

2) 8

3) 10

4) Cannot be determined

5) None of these

33. Work done by A in one day is half of the work done by B in one day. Work done by B is half of the work done by C, in one day. If C alone can complete the work in 7 days, in how many days can A, B and C together complete the same work?

1) 28

2) 14

3) 4

4) 21

5) None of these

34. A alone can complete a piece of work in 8 days. Work done by B alone in one day is half of the work done by A alone in one day. In how many days can the work be completed if A and B work together?

1) 6.33

2) 5.66

3) 5.33

4) 6.66

5) None of these

35. A, B and C together can do a piece of work in 10 days; B and C together work thrice as much as A and A and B together work 4 times as much as C. In how many days can each do it alone?

1) 45, 22, 52

2) 40, 18, 50

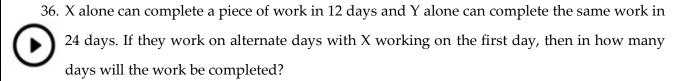
3) 40, 200/11, 50

4) 30, 200/11, 5

5) None of these



Model 5: Persons Working on Alternate Days



- 1) 15
- 2) 16
- 3) 4
- 4)8
- 5) None of these
- 37. A alone can complete a piece of work in 8 days and B alone can complete the same work in 16 days. If they work on alternate days with A working on the first day, then in how many days will the work be completed?
 - 1) 5.5
- 2) 10
- 3) 10.5
- 4) 11
- 5) None of these

Model 6: Distribution of Wages

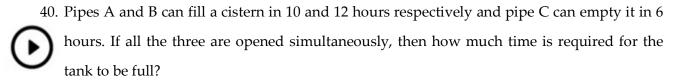
38. A can do a piece of work in 15 days and B in 20 days. They finished the work with the assistance of C in 5 days and got ₹ 45 as their wages. What is the share of each person?

- 1) ₹ 22.5, ₹ 12, ₹ 10.5
- 2) ₹ 10.5, ₹ 12, ₹ 22.5
- 3) ₹ 15, ₹ 11.25, ₹ 18.75

- 4) ₹ 12.5, ₹ 13, ₹ 19.5
- 5) None of these
- 39. A, B and C can do a piece of work in 6, 12 and 30 days respectively. They agreed to work together and finish the work for an amount of ₹ 3400. What will be the share of the person B from the given amount?
 - 1) ₹ 1500
- 2) ₹ 1000
- 3) ₹ 2000
- 4) ₹ 400
- 5) None of these



Model 7: Pipes and Cisterns



- 1) 20 hours
- 2) 60 hours
- 3) 80 hours
- 4) 40 hours
- 5) None of these
- 41. A cistern can be filled by two taps in 20 min and 30 min respectively and can be emptied by a third tap in 48 min. If they are all turned on at once, when will the cistern be half full?
 - 1) 16 min
- 2) 8 min
- 3) 10 min
- 4) 12 min
- 5) None of these
- 42. A water tub can be filled by two taps in 8 min. One tap is closed after 3 min; the other tap fills the remaining tub in 15 min. How much time will the faster tap take to fill the tub?
 - 1) 10 min
- 2) 11 min
- 3) 12 min
- 4) 15 min
- 5) None of these
- 43. Three pipes A, B and C can fill a cistern in 15, 20 and 30 min respectively. They were all turned on at the same time but after 5 min the first two pipes were turned off. In what time will the cistern be full?
 - 1) 7.5 min
- 2) 5 min
- 3) 13 min
- 4) 12.5 min
- 5) None of these
- 44. Two pipes A and B together can fill a cistern in 4 hours. Had they been opened separately, then B would have taken 6 hours more than A to fill the cistern. How much time will be taken by A to fill the cistern separately?
 - 1) 1hr
- 2) 2 hrs
- 3) 6 hrs
- 4) 8 hrs
- 5) None of these



Answers

1 - 4	2 - 4	3 - 5	4 - 3	5 - 2	6 - 4	7 - 2	8 - 2	9 - 3	10 - 1
11 - 1	12 - 3	13 - 4	14 - 2	15 - 2	16 - 2	17 - 3	18 - 3	19 - 3	20 - 4
21 - 3	22 - 4	23 - 1	24 - 1	25 - 2	26 - 4	27 - 2	28 - 3	29 - 2	30 - 2
31 - 3	32 - 2	33 - 3	34 - 3	35 - 3	36 - 2	37 - 3	38 - 3	39 - 2	40 - 2
41 - 2	42 - 3	43 - 4	44 - 3					,	

Additional Examples

- 1. A contractor undertook to finish a certain work in 124 days and employed 120 men. After 64 days, he found that he had already done $\frac{2}{3}$ of the work. How many men can be discharged now, so that the work may finish in time?
 - a) 40
- b) 50
- c) 48
- d) 56
- 2. A and B can separately do a piece of work in 20 days and 15 days respectively. They worked together for 6 days after, which B was replaced by C. The work as finished in next 4 days. The number of days in which C alone could do the work is
 - a) 30 days
- b) 45 days
- c) 40 days
- d) 35 days



3. A and B together can do a piece of work in 12 days which B and C together can do in 16 days. After A has been working at it for 5 days and B for 7 days, C finishes it in 13 days. In how many days B could finish the work?

- a) 48 days
- b) 24 days
- c) 16 days
- d) 12 days
- 4. A is thrice as good a workman as B and is, therefore, able to finish a piece of work in 60 days less than B. the time (in days) in which they can do it working together is
 - a) 22
- b) $22\frac{1}{2}$
- c) 23
- d) $23\frac{1}{4}$
- 5. A does 20% less work than B. If A can complete a piece of work in $7\frac{1}{2}$ hours, then B can do it in
- - a) 10 hours
- b) 4 hours
- c) 6 hours
- d) 8 hours
- 6. A & B can do a job in 12 days, B & C in 15 days and C & A in 20 days. How long would a take to do that work?
- a) 20 days
- b) 60 days
- c) 30 days
- d) 40 days
- 7. A and B working separately can do a piece of work in 9 and 12 days respectively. If they work for a day alternately with A beginning, the work would be completed in
 - a) $10^{\frac{2}{3}}$ days

- b) $10\frac{1}{2}$ days c) $10\frac{1}{4}$ days d) $10\frac{1}{3}$ days
- 8. A is 50% as efficient as B. C does half of the work done by A and B together. If C alone does the work in 20 days, then A, B and C together can do the work in
- a) $5\frac{2}{3}$
- b) $6^{\frac{2}{3}}$
- c) 6 days
- d) 7 days



- 9. If 8 men or 12 boys can do a piece of work in 16 days, the number of days required to complete the work by 20 men and 6 boys is
 - a) $5\frac{1}{2}$
- b) $6\frac{1}{3}$ c) $8\frac{1}{3}$ d) $7\frac{1}{3}$
- 10. A can finish a work in 18 days and B can do the same work in 15 days. B worked for 10 days and left the job. In how many days, A alone can finish the remaining work?
 - a) 6
- b) $5\frac{1}{2}$
- c) 5
- d) 8
- 11. If 10 men or 20 women or 40 children can do a piece of work in 7 months, then 5 men, 5 women and 5 children together can do half of the work in
 - a) 6 months
- b) 4 months
- c) 5 months
- d) 8 months
- 12. A man undertakes to do a certain work in 150 days. He employs 200 men. He finds that only a quarter of the work is done in 50 days. The number of additional men that should be appointed so that the whole work will be finished in time is
 - a) 75
- b) 100
- c) 125
- d) 50
- 13. Two men started a job in which A was thrice as good as B and therefore took 60 days less than B to finish the job. How many days will they take to finish the job, if they start working together?
 - a) 15 days
- b) 20 days
- c) $22\frac{1}{2}$ days d) 25 days
- 14. A and B together can complete a work in 3 days. They start together. But, after 2 days, B left the work. If the work is completed after 2 more days, B alone could do the work in
 - a) 10 days
- b) 4 days
- c) 6 days
- d) 8 days



- 15. A piece of work can be done by Ram and Shyam in 12 days, by Shyam and Hari in 15 days and by Hari and Ram in 20 days. Ram alone will complete the work in –
 - a) 30 days
- b) 32 days
- c) 36 days
- d) 42 days
- 16. 3 men or 5 women can do a work in 12 days. How long will 6 men and 5 women take to finish the work?
 - a) 4 days
- b) 5 days
- c) 6 days
- d) 7 days
- 17. A does half as much work as B in three-fourths of the time. If together they take 18 days to complete a work, how much time shall B take to do it alone?
 - a) 30 days
- b) 35 days
- c) 40 days
- d) 454 days
- 18. A can do a work in 12 days. When he had worked for 3 days, B joined Him. If they complete the work in 3 more days, in how many days can B alone finish the work?
 - a) 6 days
- b) 12 days
- c) 4 days
- d) 8 days
- 19. X is 3 times as fast as Y and is able to complete the work in 40 days less than Y. Then the time in which they can complete the work together is
 - a) 15 days
- b) 10 days
- c) $7\frac{1}{2}$ days d) 5 days
- 20. 'x' number of men can finish a piece of work in 30 days. If there were 6 men more, the work could be finished in 10 days less. The original number of men is
 - a) 6
- b) 10
- c) 12
- d) 15
- 21. A work can be completed by P and Q in 12 days, Q and R in 15 days, R and P in 20 days. In how many days P alone can finish the work?
 - a) 10
- b) 20
- c) 30
- d) 60



- 22. A and B together can do a work in 12 days. B and C together do it in 15 days. If A's efficiency is twice that of C, then the days required for B alone to finish the work is
 - a) 60
- b) 30
- c) 20
- d) 15
- 23. If 5 men or 7 women can earn ₹ 5,250 per day, how much would 7 men and 13 women earn per day?
 - a) ₹ 11,600
- b) ₹ 11,700
- c) ₹ 16,100
- d) ₹ 17,100
- 24. If A and B together can complete a piece of work in 15 days and B alone in 20 days, in how many days can A alone complete the work?
 - a) 60
- b) 45
- c) 40
- d) 30
- 25. A can complete a piece of work in 18 days, B in 20 days and C in 30 days. B and C together start the work and are faced to leave after 2 days. The time taken by A alone to complete the remaining work is
 - a) 10 days
- b) 12 days
- c) 15 days
- d) 16 days
- 26. 1 man, 3 women and 4 boys can do a piece of work in 96h, 2 men and 8 boys can do it in 80h, 2 men and 3 women can do it in 120 h, 5 men and 12 boys can do it in
 - a) $39 \frac{1}{11}h$ b) $42 \frac{7}{11}h$ c) $43 \frac{7}{11}h$ d) 44h

- 27. Two pipes P and Q can fill a cistern in 12 min and 15min respectively. If both are opened together and at the end of 3 min, the first is closed. How much longer will the cistern take to fill?
 - a) $8\frac{1}{4}$ m

- b) $8\frac{3}{4}$ min c) 5 min d) $8\frac{1}{2}$ min



- 28. Ronald and Elan are working on an assignment. Ronald takes 6h to type 32 pages on a computer, while Elan takes 5 h to type 40 pages. How much time will they take, working together on two different computers to type an assignment of 110 pages?
 - a) 7 h 30 min
- b) 8 h
- c) 8 h 15 min d) 8 h 25 min

Answers

1 – d									
11 - b	12 - b	13 - с	14 - с	15 - a	16 - a	17 - a	18 - a	19 - a	20 - c
21 - c	22 - c	23 - d	24 – a	25 - c	26 - с	27 - a	28 - c		