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TIME AND WORK (QUANTITATIVE APTITUDE)

Subject wise Sample Questions with Answers

For Banking, SSC, General Competition, Jobs and other Job oriented Entrance Exams.

Updated with Latest Syllabus.

Time and Work Set 1

1. 10 boys can complete a work in 7 days and 10 girls take 14 days to complete the work. How many days will 5 boys and 10 girls take to complete the work?

A) 13 days

B) 10 days

C) 7 days

D) 16 days

Answer: C

2. If 10 men take 15 days to complete a work. In how many days will 37 men complete the work?

A) 3 days

B) 4 days

C) 5 days

D) 6 days

Answer: B

3. If a soldier fires 7 shots from a gun in 12 minutes then find the total number of shots fired by the man in 3/2 hrs.

A) 45

B) 44

C) 46

D) 47

Answer: C

4. A town having teenagers(boys & girls) of 5000 requires 150 litre of water per head. It has a tank measuring 20 m × 15 m × 5 m. The water of this tank will sufficient for _____ days.

A) 8

B) 6

C) 4

D) 2

Answer: D

5. There is sufficient salary to give K for 10 days and L for 15 days. Then how many days will the money last if both has to be given the salary?

A) 6 days

B) 12 days

C) 4 days

D) 9 days

Answer: A

6. It takes one minute to fill 2/7 th of a vessel. What is the time taken in minutes to fill the whole of the vessel?

A) 1/7 min

B) 7/2 min

C) 5/7 min

D) 7/5 min

Answer: B

7. One girl can eat 112 chocolates in half a minute, and her boy friend can eat half as many in twice the length of time. How many chocolates can both boy and girl eat in 12 seconds ?

A) 44

B) 32

C) 56

D) 49

Answer: C

8. A shopkeeper has a job to print certain number of documents and there are three machines P, Q and R for this job. P can complete the job in 3 days, Q can complete the job in 4 days and R can complete the job in 6 days. How many days the shopkeeper will it take to complete the job if all the machines are used simultaneously?

A) 4/3 days

B) 2 days

C) 3/2 days

D) 4 days

Answer: A

9. A can complete 9/10 part of a work in 31 days. After that, with the help of B he can complete the remaining work in 4 days. In how many days will A and B together can complete that work ?

A) 36

B) 40

C) 42

D) 38

Answer: B

10. Lasya alone can do a work in 16 days. Srimukhi's efficiency is 20 % lesser than that of Laya. If Rashmi and Srimukhi together can do the same work in 12 days, then find the efficiency ratio of Rashmi to that of Lasya?

A) 19 : 7

B) 30 : 19

C) 8 : 15

D) 31 : 17

Answer: C

11. A can complete a work in 12 days with a working of 8 hours per day. B can complete the same work in 8 days when working 10 hours a day. If A and B work together, working 8 hours a day, the work can be completed in --- days?

A) 51/24

B) 87/5

C) 57/12

D) 60/11

Answer: D

12. 5 boys and 3 girls can together cultivate a 23 acre field in 4 days and 3 boys and 2 girls together can cultivate a 7 acre field in 2 days. How many girls will be needed together with 7 boys, if they cultivate 45 acres of field in 6 days?

A) 4

B) 3

C) 2

D) 1

Answer: C

13. 70000 a year is how much an hour?

A) 80

B) 8

C) 0.8

D) 0.08

Answer: B

14. 12 men complete a work in 14 days. 5 days after they had started working, 3 men join them. How many more days will all of them take to complete the remaining work?

A) 5

B) 4

C) 3

D) 2

Answer: C

15. Three athletes can complete one round around a circular field in 16, 24 and 36 min respectively. They start running together at same instant then after how much time they will meet to each other for first time?

A) 2 hrs 24 min

B) 2 hrs 44 min

C) 1 hrs 24 min

D) 1 hrs 24 min

Answer: A

16. Raghu can do a job in 12 days alone and Sam can do the same job in 15 days alone. A third person Aru whose efficiency is two-third of efficiency of both Ram and Shyam together, can do the same job in how many days alone?

A) 10

B) 12

C) 13

D) 15

Answer: A

17. Mr. Ram is on tour and he has Rs 360 for his expenses. If he exceeds his tour by 4 days he must cut down daily expenses by Rs 3. The number of days of Mr. Ram's tour programme is

A. 28 Days

B. 24 Days

C. 22 Days

D. 20 Days

Answer: D

18. How many times will minute hand and hour hand coincide in one day?

A. 21

B. 22

C. 23

D. 24

Answer: B

19. How many times will minute hand and hour hand opposite in one day?

A. 22

B. 22

C. 23

D. 24

Answer: B

20. How many times will minute hand and hour hand perpendicular in one day?

A. 22

B. 23

C. 24

D. 44

Answer: D

21. Two pipes can fill a tank in 20 and 24 minutes respectively and a waste pipe can empty 3 gallons per minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tank in gallons is

A. 100

B. 110

C. 120

D. 140

Answer: C

22. A and B can do a piece of work in 45 days and 40 days respectively. They began to do the work together but A leaves after some days and then B completed the remaining work in 23 days.

The number of days after which A left the work was

A. 12

B. 11

C. 10

D. 9

Answer: D

23. Water flows into a reservoir which is 200 m long and 150 m wide, through a pipe of cross-section (0.3m x 0.2m) at 20 kmph. In what time will the water level be 8?

A. 100 hrs

B. 150 hrs

C. 175 hrs

D. 200 hrs

Answer: D

24. 39 persons can repair a road in 12 days, working 5 hours a day. In how many days will 30 persons, working 6 hours a day, complete the work?

A. 10

B. 13

C. 14

D. 15

Answer: B

25. A work is done by three person A, B and C. A alone takes 10 hours to complete a single product but B and C working together takes 4 hours, for the completion of the same product.

If all of them worked together and completed 14 products, then how many hours have they worked?

A.20 hrs

B.28 hrs

C.40 hrs

D.54 hrs

Answer: C

26. A pump can be used either to fill or to empty a tank. The capacity of the tank is (3600text{ m}^3). The emptying capacity of the pump is (10 text{ m}^3/text{min}) higher than its filling capacity. What is the emptying capacity of the pump if the pump needs 12 more minutes to fill the tank than to empty it?

A. 10 m3/min

B. 60 m3/min

C. 45 m3/min

D. 90 m3/min

Answer: B

27. Four men and three women can do a job in 6 days. When five men and six women work on the same job, the work gets completed in 4 days. How many days will a woman take to do the job, if she works alone on it?

A. 18

B. 36

C. 54

D. None

Answer: C

28. How many days will it take for A alone to complete the job?

A. 8

B. 6

C. 10

D. 20

Answer: C

29. Working together, A and B can do a job in 6 days. B and C can do the same job in 10 days, while C and A can do it in 7.5 days.

How many days will it take if all A, B and C work together to complete the job?

A. 8

B. 5

C. 3

D. 7

Answer: B

30. Anil does a work in 90 days, Bittu in 40 days and Chintu in 12 days. They work one after another for a day each, starting with Anil followed by Bittu and then by Chintu. If the total wages received are Rs 360 and Anil, Bittu, Chintu share them in the ratio of the work done, find their respective individual wages.
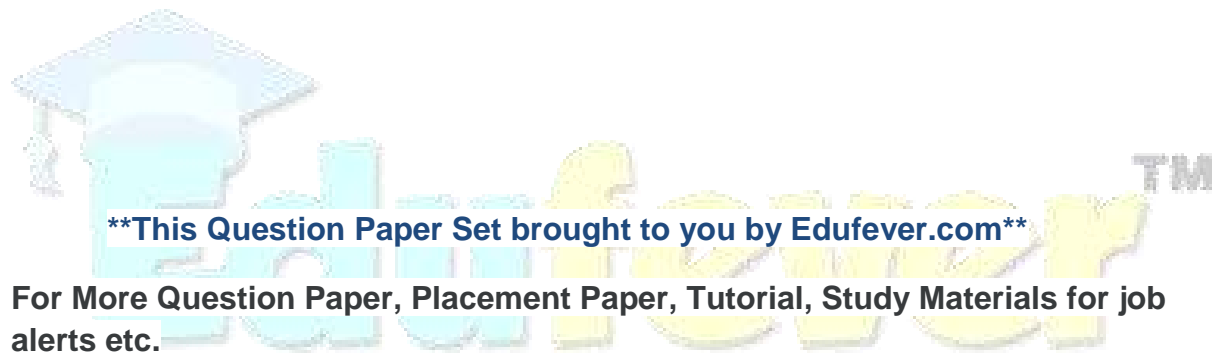
A. Rs 40, Rs 60 and Rs 260

B. Rs 36, Rs 81 and Rs 243

C. Rs 42, Rs 86 and Rs 232

D. Rs 38, Rs 88 and Rs 234

Answer: B

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Time and Work Set 2

1. Ten women can do a work in six days. Six men can complete the same work in five days. What is the ratio between the capacity of a man and a woman?

A) 1:2

B) 2:1

C) 2:3

D) 3:2

Answer: B

2. A, B and C can do a piece of work in 72, 48 and 36 days respectively. For first p/2 days, A & B work together and for next ((p+6))/3days all three worked together. Remaining 125/3% of work is completed by D in 10 days. If C & D worked together for p day then, what portion of work will be remained?

A) 1/5

B) 1/6

C) 1/7

D) 1/8

Answer: B

3. A can write 32 pages in 6 hours and B can write 40 pages in 5 hours. If they write together, in how many hours they can write 110 pages?

A) 7 hrs

B) 6 hrs 10 min

C) 5 hrs 25min

D) 8 hrs 15 min

Answer: D

4. A laborer is engaged for 30 days on the condition that he receives Rs.25 for each day he works and is fined Rs.7.50 for each day is absent. He gets Rs.425 in all. For how many days was he absent?

A) 10 days

B) 14 days

C) 11 days

D) 9 days

Answer: A

5. Adam and Smith are working on a project. Adam takes 6 hrs to type 36 pages on a computer, while Smith takes 5 hrs to type 40 pages. How much time will they take, working together on two different computers to type a project of 120 pages?

A) 8 hrs 45 min

B) 8 hrs 42 min

C) 8 hrs

D) 8 hrs 34 min

Answer: D

6. P, Q, and R can do a job in 12 days together. If their efficiency of working be in the ratio 3 : 8 : 5, Find in what time Q can complete the same work alone?

A) 36 days

B) 30 days

C) 24 days

D) 22 days

Answer: A

7. P is 30% more efficient than Q. How much time will they, working together, take to complete a job which P alone could have done in 23 days?

A) 16 days

B) 13 days

C) 15 days

D) 12 days

 Answer: B

8. A work which could be finished in 11 days was finished 4 days earlier after 4 more men joined. The number of men employed was ?

A) 7

B) 8

C) 9

D) 10

Answer: A

9. A mother can do a certain job in x hours. Her daughter takes twice as long to do the job. Working together, they can do the job in 6 hours. How many hours does the mother take to do the job ?

A) 3

B) 6

C) 9

D) 12

Answer: C

10. Two persons K and L can complete a piece of work in 30 days and 45 days respectively. If they work together, what part of the work will be completed in 3 days ?

A) 1/6

B) 1/3

C) 2/3

D) 1/18

Answer: A

11. K is 4 times as fast as L and working together, they can complete a work in 24 days. In how many days can L alone complete the work ?

A) 30 days

B) 40 days

C) 120 days

D) 80 days

Answer: A

12. A can do a work in 9 days, B can do a work in 7 days, C can do a work in 5 days. A works on the first day, B works on the second day and C on the third day respectively that is they work on alternate days. When will they finish the work?

A) [7 + (215/345)] days

B) [6 + (11/215)] days

C) [6 + (261/315)] days

D) [5 + (112/351)] days

Answer: C

13. Priya can do a work in 16 days. In how many days will the work be completed by Sai, if the efficiency of Sai is 60% more than that of Priya?

A) 8 days

B) 12 days

C) 14 days

D) 10 days

Answer: D

14. Three men, four women and six children can complete a work in 9 days. A women does double the work a man does and a child does half the work a man does. How many women alone can complete this work in 9 days?

A) 7

B) 8

C) 9

D) 6

Answer: A

15. P can do a piece of work in 5 less days than Q. If both of them can do the same work in 1119days, in how many days will Q alone do the same work?

A) 24 days

B) 25 days

C) 20 days

D) 19 days

Answer: B

16. X can complete the work in 10 days, Y can do the same in 15 days. If they are hired for 5 days to do the work together, what is the work that left unfinished?

A) 1/3

B) 2/3

C) 1/6

D) 5/6

Answer: C

17. 5 men and 3 boys can together cultivate a 23 acre field in 4 days and 3 men and 2 boys together can cultivate a 7 acre field in 2 days. How many boys will be needed together with 7 men, if they cultivate 45 acre of field in 6 days.

A) 6

B) 4

C) 2

D) 3

Answer: C

18. A can do a piece of work in 15 days and B can do it in 16 days and C can do it 24 days. They started the work together and A leaves after 3 days and B leaves after 4 days from the beginning. How long will work lost?

A) 10 2/3 days

B) 13 1/5 days

C) 12 2/3 days

D) 11 5/7 days

Answer: B

19. Two persons Shyam and Rahim can do a job in 32 days together. Rahim can do the same job in 48 days alone. They started working together and after working 8 days Rahim is replaced by a third person Ram whose efficiency is half that of Rahim. Find in how many days the remaining work will be completed by both Shyam and Ram together?

A) 16 days

B) 72/5 days

C) 15 days

D) 96/5 days

Answer: B

20. 28 Men and 52 women working together completes a work in 22.5 days. 35 men and 65 women working together on same work will complete it in how many days?

A) 16

B) 18

C) 19

D) 21

Answer: B

21. A can complete a piece of work in 12 days and B is 60% more efficient than A. In how many days B will complete the same work?

A) 8.7 hrs

B) 5.2 hrs

C) 5 hrs

D) 7.5 hrs

Answer: D

22. K, L and M can do a piece of work in 20, 30 and 60 days respectively. In how many days can K do the total work if he is assisted by L and M on every third day?

A) 15 days

B) 13 days

C) 12 days

D) 10 days

Answer: A

23. K can finish the work in 18 days and L can do the same work in 15 days. L worked for 10 days and left the job. In how many days, K alone can finish the remaining work?

A) 5.5 days

B) 6 days

C) 4.2 days

D) 5 days

Answer: B

24. The ratio of efficiencies of P, Q and R is 2 : 3 : 4. While P and R work on alternate days and Q work for all days. Now the work completed in total 10 days and the total amount they get is Rs. 1200. Find the amount of each person(respectively).

A) 200, 600, 400

B) 400, 600, 200

C) 600, 200, 400

D) 400, 200, 600

Answer: A

25. K can lay Highway road between two cities in 16 days. L can do the same job in 12 days. With the help of M, they complete the job in 4 days. How much days does it take for M alone to complete the work?

A) 47/7 days

B) 59/6 days

C) 48/5 days

D) 57/5 days

Answer: C

26. 9 girls working 7 hours a day can complete a piece of work in 15 day. In how many days can 6 girls working for 9 hours a day, complete the same piece of work?

A) 35/4 days

B) 17.5 days

C) 19 3/4 days

D) 37/3 days

Answer: B

27. Pavan and Sravan are two persons. If Pavan works with his actual efficiency and Sravan twice of his actual efficiency then it takes 25 days to complete the work. But If Pavan works twice of his actual efficiency and Sravan with his normal efficiency then the work is completed in 20 days. How many days would it take if Sravan alone works with his actual efficiency (in Days)?

A) 50

B) 100

C) 70

D) 35

Answer: B

28. A woman fills a bucket in 6 minutes. 1845 buckets have to be filled from 8 am. to 9:30 am. How many woman employees should be employed for this task?

A) 111

B) 117

C) 123

D) 139

Answer: C.

29. A constructor estimates that 4 people can paint Mr. Karthik's house in 6 days. If he uses 5 people instead of 4, how long will they take to complete the job ?

A) 3 days

B) 26/3 days

C) 13/4 days

D) 24/5 days

Answer: D

30. M, N and O can complete the work in 18, 36 and 54 days respectively. M started the work and worked for 8 days, then N and O joined him and they all worked together for some days. M left the job one day before completion of work. For how many days they all worked together?

A) 4

B) 5

C) 3

D) 6

Answer: B

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Time and Work Set 3

1. If 5 men and 2 boys working together, can do four times as much work per hour as a man and a boy together. Find the ratio of the work done by a man and that of a boy for a given time ?

A) 1:2

B) 1:3

C) 3:1

D) 2:1

Answer: D

2. A contractor undertook to complete a piece of work in 120 Days and employed 140 men upon it. At the end of 66 days only half of the work was done, so he put on 25 extra men. By how much time did he exceed the specific time?

A) 2 days

B) 3 days

C) 4 days

D) 5 days

Answer: A

3. K can build a wall in 30 days. L can demolish that wall in 60 days. If K and L work on alternate days, when will the wall be completed?

A) 120 days

B) 119 days

C) 118 days

D) 117 days

Answer: D

4. In a hostel, there was food for 1000 students for one month. After 10 days, 1000 more students joined the hostel. How long would the students be able to carry on with the remaining food?

A) 10 days

B) 15 days

C) 20 days

D) 5 days

Answer: A

5. At Arihant Prakasham every book goes through 3 phases (or stages) typing, composing and binding. There are 16 typists, 10 composers and 15 binders. A typist can type 8 books in each hour, a composer can compose 12 books in each hour and a binder can bind 12 books in each hour. All of the people at Arihant Prakasham works for 10 hours a day and each person is trained to do only the ob of 1 category. How many books can be prepared in each day?

A) 1500

B) 1200

C) 1440

D) 1380

Answer: B

6. A group of men can complete a job in K hours. After every 4 hours, half the number of men working at that point of time leave the job. Continuing this way if the job is finished in 16 hours, what is the value of K?

A) 7 hrs

B) 7.5 hrs

C) 8 hrs

D) 8.25 hrs

Answer: B

7. 45 men working 9 hours per day dig 40 m deep. How many extra men should be put to dig to a depth of 56 m working 7 hours per day?

A) 36

B) 61

C) 48

D) 54

Answer: A

Time and Work Set 3

8. A take twice as much time as B or thrice as much time to finish a piece of work. Working together, they can finish the work in 2 days. B can do the work alone in?

A) 8 hrs

B) 12 hrs

C) 6 hrs

D) 4 hrs

Answer: C

9. A garrison of 2000 men has provisions for 54 days. At the end of 15 days, a reinforcement arrives, and it is now found that the provisions will last only for 20 days more. What is the reinforcement ?

A) 1900

B) 2100

C) 1700

D) 2000

Answer: A

10. A can build a wall in 16 days while B can destroy it in 8 days. A worked for 5 days. Then B joined with A for the next 2 days. Find in how many days could A build the remaining wall ?

A) 12 days

B) 14 days

C) 13 days

D) 16 days

Answer: C

11. If 34 men completed 2/5th of a work in 8 days working 9 hours a day. How many more man should be engaged to finish the rest of the work in 6 days working 9 hours a day?

A) 101 men

B) 112 men

C) 102 men

D) 120 men

Answer: C

12. P alone can do a piece of work in 24 days. The time taken by P to complete one-third of work is equal to time taken by Q to complete half of the work. How many days are required to complete by P and Q working together?

A) 9 3/5 days

B) 7 days

C) 6 3/7 days

D) 8 days

Answer: A

13. After working for 8 days, Hari Ram finds that only 1/3 rd of the work has been done. He employs Satya who is 60% as efficient as Hari Ram. How many days more would Satya take to complete the work?

A) 24 1/2 days

B) 25 3/2 days

C) 24 2/3 days

D) 26 2/3 days

Answer: D

14. In a public bathroom there are n taps 1,2,3...n. Tap1 and Tap2 take equal time to fill the tank while Tap3 takes half the time taken by Tap2 and Tap4 takes half the time taken by Tap3. Similarly each next number of tap takes half the time taken by previous number of Tap i.e, K-th Tap takes half the time taken by (K-1)th Tap. If the 10th tap takes 2 hours to fill the tank alone then what is the ratio of efficiency of 8th tap and 12th tap, respectively?

A) 4:1

B) 5:3

C) 16:1

D) 1:16

Answer: D

15. P alone can complete a piece of work in 6 days. Work done by Q alone in one day is equal to one-third of the work done by P alone in one day. In how many days can the work be completed if P and Q work together ?

A) 5 (2/3)

B) 6 (3/4)

C) 4 (1/2)

D) 3

Answer: C

16. Twelve children take sixteen days to complete a work which can be completed by 8 adults in 12 days. After working for 3 days, sixteen adults left and six adults and four children joined them. How many days will they take to complete the remaining work ?

A) 3 days

B) 2 days

C) 6 days

D) 12 days

Answer: C

17. Three taps P, Q and R can fill a tank in 12 hrs, 15 hrs and 20 hrs respectively. If P is open all the time and Q and R are open for one hour each alternately, starting with Q, then the tank will be full in how many hours?

A) 9 hrs

B) 7 hrs

C) 13 hrs

D) 11 hrs

Answer: B

18. A can do a piece of work in 21 days and B in 28 days. Together they started the work and B left after 4 days. In how many days can A alone do the remaining work?

A) 14 days

B) 18 days

C) 21 days

D) 16 days

Answer: A

19. A certain job was assigned to a group of women to do it in 20 days. But 12 women did not turn up for the job and the remaining did the job in 32 days. The original number of women in the group was?

A) 36

B) 32

C) 22

D) 28

Answer: B

20. Mr. stenley employed a certain number of typist for his project. 8 days later 20% of the typist left the job and it was found that it took as much time to complete the rest work from then as the entire work needed with all the employed typists. The average speed of a typist is 20 pages/hour. Minimum how many typist could be employed?

A) 10

B) 5

C) 15

D) 4

Answer: B

21. A and B together finish a wor in 20 days.They worked together for 15 days and then B left. Afer another 10 days,A finished the remaining work. In how many days A alone can finish the job?

A) 30

B) 40

C) 50

D) 60

 Answer: B

Time and Work Set 3

22. A is 3 times faster than B. If A can finish a work 32 days less than that of B, find the number of days need to finish the work if both are working together?

A) 12 days

B) 24 days

C) 32 days

D) 16 days

Answer: A

23. 10 men and 15 women together can complete a work in 6 days. It takes 100 days for one man alone to complete the same work. How many days will be required for one woman alone to complete the same work?

A) 215 days

B) 225 days

C) 235 days

D) 240 days

Answer: B

24. P and Q can do a work in 4 hours and 12 hours respectively. P starts the work at 9am and they work alternately for one hour each. When will the work be completed ?

A) 3 am

B) 12 pm

C) 1 pm

D) 3 pm

Answer: D

25. If 6 engines consume 24 metric tons of coal, when each is working 8 hours day, how much coal will be required for 9 engines, each running 13hours a day, it being given that 2 engines of former type consume as much as 3 engines of latter type ?

A) 45 metric tones

B) 47 metric tones

C) 55 metric tones

D) 34 metric tones

Answer: A

26. 50 men can build a tank in 40days, but though they begin the work together, 5 men quit every ten days. The time needed to build the tank is?

A) 50 days

B) 48 days

C) 47.5 days

D) 49 days

Answer: A

27. Two boys and a girl can do a work in 5 days, while a boy and 2 girls can do it in 6 days. If the boy is paid at the rate of 28$ a week, what should be the wages of the girl a week ?

A) 24 $

B) 22 $

C) 16 $

D) 14 $

Answer: C

28. P and Q were assigned to do a work for an amount of 1200. P alone can do it in 15 days while Q can do it in 12 days. With the help of R they finish the work in 6 days. Find the share of R ?

A) 120

B) 240

C) 360

D) 180

Answer: A

29. Sixty men can stitch 150 shirts in 30 days working 8 hours a day. In how many days can 35 men stitch 200 shirts working 6 hours a day?

A) 87.5

B) 89

C) 91.5

D) 93.5

Answer: C

30. In a regular week, there are 5 working days and for each day, the working hours are 8. A man gets Rs. 2.40 per hour for regular work and Rs. 3.20 per hours for overtime. If he earns Rs. 432 in 4 weeks, then how many hours does he work for?

A) 145

B) 165

C) 175

D) 135

Answer: C

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Time and Work Set 4

1. A is 30% more efficient than B. How much time will they, working together, take to complete a job which A alone could have done in 23 days?

A) 9 days

B) 11 days

C) 13 days

D) 15 days

Answer: C

2. A does half as much work as B and C does half as much work as A and B together. If C alone can finish the work in 40 days, then together, all will finish the work in?

A) 17 + 4/7 days

B) 13 + 1/3 days

C) 15 + 3/2 days

D) 16 days

Answer: B

3. 4 men and 6 women can complete a work in 8 days, while 3 men and 7 women can complete it in 10 days. In how many days will 10 women complete it?

A) 40 days

B) 36 days

C) 32 days

D) 34 days

Answer: A

4. A and B together can do a piece of work in 40 days. A having worked for 20 days, B finishes the remaining work alone in 60 days. In How many days shall B finish the whole work alone?

A) 60

B) 70

C) 80

D) 90

Answer: C

5. 9 men and 12 boys finish a job in 12 days, 12 men and 12 boys finish it in 10 days. 10 men and 10 boys shall finish it in how many days?

A) 15 days

B) 11 days

C) 14 days

D) 12 days

Answer: D

6. Four pipes P,Q, R and S can fill a cistern in 20,25, 40 and 50 hours respectively.The first pipe P was opened at 6:00 am, Q at 8:00 am, R at 9:00 am and S at 10:00 am. when will the Cistern be full?

A) 4:18 pm

B) 3:09 pm

C) 12:15 pm

D) 11:09 am

Answer: B

7. A can do a piece of work in 30 days. He works at it for 6 days and then B finishes it in 18 days. In what time can A and B together it?

A) 14 1/2 days

B) 11 days

C) 13 1/4 days

D) 12 6/7 days

Answer: D

8. Amit can do a piece of work in 45 days, but Bharath can do the same work in 5 days less, than Amit, when working alone. Amit and Bharath both started the work together but Bharath left after some days and Amit finished the remaining work in 56 days with half of his efficiency but he did the work with Bharath with his complete efficiency. For how many days they had worked together?

A) 6

B) 8

C) 9

D) 12

Answer: B

9. If the work was further increased by 50% but the contractor continues to increase the 5 workers o every 2 days then how many more days are required over the initial time specified by the client.

A) 1 day

B) 2 days

C) 5 days

D) None of these

Answer: B

10. A tank has an inlet and outlet pipe. The inlet pipe fills the tank completely in 2 hours when the outlet pipe is plugged. The outlet pipe empties the tank completely in 6 hours when the inlet pipe is pluggeed.

If there is a lekage also which is capable of draining out the liquid from the tank at half of the rate of outet pipe,them what is the time taken to fill the emty tank when both the pipes are opened?

A) 3 hours

B) 4 hours

C) 5 hours

D) None of these

Answer: B

11. There are three boats B1, B2 and B3 working together they carry 60 people in each trip. One day an early morning B1 carried 50 people in few trips alone. When it stopped carrying the passengers B2 and B3 started carrying the people together. It took a total of 10 trips to carry 300 people by B1, B2 and B3. It is known that each day on an average 300 people cross the river using only one of the 3 boats B1, B2 and B3. How many trips it would take to B1, to carry 150 passengers alone?

A) 15

B) 30

C) 25

D) 10

Answer: A

12. 12 men complete a work in 9 days. After they have worked for 6 days, 4 more men join them. How many days will they take to complete the remaining work ?

A) 2 days

B) 2.5 days

C) 2.25 days

D) 3 days

Answer: C

13. Kaushalya can do a work in 20 days, while kaikeyi can do the same work in 25 days. They started the work jointly.Few days later Sumitra also joined them and thus all of them completed the whole work in 10 days. All of them were paid total Rs.700. What is the Share of Sumitra?

A) Rs.130

B) Rs.185

C) Rs.70

D) can't be determined

Answer: C

14. Two pipes A and B can fill a tank in 24 hours and $17\frac{1}{7}$ hours respectively. Harihar opened the pipes A and B to fill an empty tank and some times later he closed the taps A and B , when the tank was supposed to be full. After that it was found that the tank was emptied in 2.5 hours because an outlet pipe "C" connected to the tank was open from the beginning. If Harihar closed the pipe C instead of closing pipes A and B the remaining tank would have been filled in:

A) 2 hours

B) 8 hours

C) 6 hours

D) 4 hours

Answer: B

15. A single reservoir supplies the petrol to the whole city, while the reservoir is fed by a single pipeline filling the reservoir with the stream of uniform volume. When the reservoir is full and if 40,000 liters of petrol is used daily, the suply fails in 90 days.If 32,000 liters of petrol is used daily, it fails in 60 days. How much petrol can be used daily with out the supply ever failing?

A) 64000 liters

B) 56000 liters

C) 78000 liters

D) 60000 liters

Answer: B

16. A contractor undertook a project to complete it in 20 days which needed 5 workers to work continuously for all the days estimated. But before the start of the work the client wanted to complete it earlier than the scheduled time, so the contractor calculated that he needed to increase 5 additional men every 2 days to complete the work in the time the client wanted it:

If 2 men and 3 women can do a piece of work in 8 days and 3 men and 2 women in 7 days. In how many days can the work be done by 5 men and 4 women working together?

A) 3 days

B) 6 days

C) 4 days

D) 2 days

Answer: C

17. Twenty men can do a work in eighteen days. Eighteen women can complete the same work in fifteen days. What is the ratio between the capacity of a woman and a man ?

A) 4:5

B) 3:4

C) 4:3

D) 2:3

Answer: C

18. A take twice as much time as B or thrice as much time to finish a piece of work. Working together, they can finish the work in 2 days. B can do the work alone in ?

A) 3 hrs

B) 6 hrs

C) 7 hrs

D) 5 hrs

Answer: B

19. 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 ?

A) Total work

B) One-fourth work

C) Half work

D) Two-third work

Answer: C

20. Amar can do a piece of work in 10 days. He works at it for 4 days and then Arun finishes it in 9 days. In how many days can Amar and Arun together finish the work ?

A) 4 days

B) 8 days

C) 3 days

D) 6 days

Answer: D

21. 6 men can complete a piece of work in 12 days. 8 women can complete the same piece of work in 18 days whereas 18 children can complete the piece of work in 10 days. 4 men, 12 women and 20 children work together for 2 days. If only men were to complete the remaining work in 1 day how many men would be required totally?

A) 38

B) 72

C) 36

D) 76

Answer: C

22. If 6 men and 8 boys can do a piece of work in 10 days while 26 men and 48 boys can do the same in 2 days what is time taken by 15 men and 20 boys?

A) 4 days

B) 6 days

C) 7 days

D) 5 days

Answer: A

23. A contractor undertake to finish a certain work in 124 days and employed 120 men. After 64 days, he found that he had already done 2/3 of the work. How many men can be discharged so that the work may finish in time ?

A) 64

B) 62

C) 58

D) 56

Answer: D

24. Raghu can complete a work in 12days working 9 hours a day. Arun can complete the same work in 8 days working 11 hours a day. If both Raghu and Arun work together, working 12 hours a day, in how many days can they complete the work ?

A) $3\frac{4}{49}$ days

B) $12\frac{4}{49}$ days

C) $4\frac{3}{49}$ days

D) $4\frac{12}{49}$ days

A) Option A   B) Option B

C) Option C   D) Option D

Answer: C

25. After working for 8 days, Arun finds that only 13 rd of the work has been done. He employs Akhil who is 60% as efficient as Arun. How many days more would Akhil take to complete the work?

A) 24.5 days

B) 26.6 days

C) 25 days

D) 20 days

Answer: B

26. 6 boys and 8 girls can do job in 10 days , 26 boys & 48 women do work in 2 days. Find time taken by 15 boys and 20 girls to do same work ?

A) 2 days

B) 3 days

C) 4 days

D) 5 days

Answer: C

27. P and Q can complete a job in 24 days working together. P alone can complete it in 32 days. Both of them worked together for 8 days and then P left. The number of days Q will take to complete the remaining work is ?

A) 56 days

B) 54 days

C) 60 days

D) 64 days

Answer: D

28. A can finish a work in 15 days and B can do the same work in 12 days . B worked for 8 days and left the job .In how many days, A alone can finish the remaining work?

A) 6 days

B) 5 days

C) 4 days

D) 3 days

Answer: B

29. Time taken by P alone to finish a work is 50% more than the time taken by P and Q together. Q is thrice as efficient as R. If Q and R together can complete the work in 22.5 days, then how many days will P alone take to complete the work ?

A) 17 days

B) 11 days

C) 15 days

D) 16 days

Answer: C

30. Five men and nine women can do a piece of work in 10 days. Six men and twelve women can do the same work in 8 days. In how many days can three men and three women do the work ?

A) 18 days

B) 20 days

C) 16 days

D) 14 days

Answer: B

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TIME AND WORK (QUANTITATIVE APTITUDE)

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Time and Work Set 5

1. A and B can do a piece of work in 4 days, while C and D can do the same work in 12 days. In how many days will A, B, C and D do it together?

1. 12 days

2. 4 days

3. 3 days

4. 2 days

5. None of these

Answer: 3

2. In the beginning, Ram works at a rate such that he can finish a piece of work in 24 hrs, but he only works at this rate for 16 hrs. After that, he works at a rate such that he can do the whole work in 18 hrs. If Ram is to finish this work at a stretch, how many hours will he take to finish this work?

1. 12 hrs

2. 18 hrs

3. 11½ hrs

4. 15 hrs

5. 22 hrs

Answer: 5

3. A can do a piece of work in 12 days. B can do this work in 16 days. A started the work alone. After how many days should B join him, so that the work is finished in 9 days?

1. 2 days

2. 3 days

3. 4 days

4. 5 days

5. 1 days

Answer: 4

4. A can do a piece of work in 10 days, and B can do the same work in 20 days. With the help of C, they finished the work in 4 days. C can do the work in how many days, working alone?

1. 5 days

2. 10 days

3. 15 days

4. 20 days

5. 25 days

Answer: 1

5. A, B, C, and D can do a piece of work in 20 days. If A and B can do it together in 50 days, and C alone in 60 days, find the time in which D alone can do it.

1. 120 days

2. 200 days

3. 150 days

4. 90 days

5. 75 days

Answer: 5

6. A and B can do a piece of work in 40 days, B and C can do it in 120 days. If B alone can do it in 180 days, in how many days will A and C do it together?

1. 45 days

2. 22.5 days

3. 25 days

4. 18 days

5. 12 days

Answer: 1

7. A and B undertake to do a piece of work for Rs. 450. A can do it in 20 days and B can do it in 40 days. With the help of C, they finish it in 8 days. How much should C be paid for his contribution?

1. Rs. 180

2. Rs. 40

3. Rs. 120

4. Rs. 60

5. Rs. 50

Answer: 1

8. A, B, and C can do a piece of work in 8 days. B and C together do it in 24 days. B alone can do it in 40 days. In what time will it be done by C working alone?

1. 25 days

2. 24 days

3. 60 days

4. 20 days

5. 30 days

Answer: 3

9. Ajay and Vijay undertake to do a piece of work for Rs. 480. Ajay alone can do it in 75 days while Vijay alone can do it in 40 days. With the help of Pradeep, they finish the work in 25 days. How much should Pradeep get for his work?

1. Rs. 40

2. Rs. 20

3. Rs. 360

4. Rs. 100

5. Rs. 60

Answer: 2

10. Daku and Tamatar can do a piece of work in 70 and 60 days respectively. They began the work together, but Daku leaves after some days and Tamatar finished the remaining work in 47 days. After how many days did Daku leave?

1. 14 days

2. 16 days

3. 18 days

4. 10 days

5. 7 days

Answer: 5

11. A, B and C can do a piece of work in 24 days, 30 days and 40 days respectively. They began the work together but C left 4 days before the completion of the work. In how many days was the work completed?

A) 11 days

B) 12 days

C) 13 days

D) 14 days

Answer: A

12. A can do a piece of work in 10 days, B in 15 days. They work together for 5 days, the rest of the work is finished by C in two more days. If they get Rs. 3000 as wages for the whole work, what are the daily wages of A, B and C respectively (in Rs):

A) 200, 250, 300

B) 300, 200, 250

C) 200, 300, 400

D) None of these

Answer: B

13. P can complete a work in 12 days working 8 hours a day.Q can complete the same work in 8 days working 10 hours a day. If both p and Q work together,working 8 hours a day,in how many days can they complete the work?

A) 60/11

B) 61/11

C) 71/11

D) 72/11

Answer: A

14. 12 men can complete a work in 8 days. 16 women can complete the same work in 12 days. 8 men and 8 women started working and worked for 6 days. How many more men are to be added to complete the remaining work in 1 day?

A) 8

B) 12

C) 16

D) 24

Answer: B

15. A works twice as fast as B.If B can complete a work in 18 days independently,the number of days in which A and B can together finish the work is:

A) 4 days

B) 6 days

C) 8 days

D) 10 days

Answer: B

16. A and B can do a piece of work in 30 days , while B and C can do the same work in 24 days and C and A in 20 days . They all work together for 10 days when B and C leave. How many days more will A take to finish the work?

A) 18 days

B) 24 days

C) 30 days

D) 36 days

Answer: A

17. A can do a certain work in the same time in which B and C together can do it.If A and B together could do it in 20 days and C alone in 60 days ,then B alone could do it in:

A) 20days

B) 40 days

C) 50 days

D) 60 days

Answer: D

18. The ratio of efficiency of A is to C is 5:3. The ratio of number of days taken by B is to C is 2:3. A takes 6 days less than C, when A and C completes the work individually. B and C started the work and left after 2 days. The number of days taken by A to finish the remaining work is:

A) 4.5

B) 5

C) 6

D) 9 1/3

Answer: C

19. A Contractor employed a certain number of workers to finish constructing a road in a certain scheduled time. Sometime later, when a part of work had been completed, he realised that the work would get delayed by three-fourth of the scheduled time, so he at once doubled the no of workers and thus he managed to finish the road on the scheduled time. How much work he had been completed, before increasing the number of workers?

A) 10 %

B) 14 (2/7)%

C) 20 %

D) Can't be determined

Answer: B

20. (x-2) men can do a piece of work in x days and (x+7) men can do 75% of the same work in (x-10) days. Then in how many days can (x+10) men finish the work?

A) 27 days

B) 12 days

C) 25 days

D) 18 days

Answer: B

Time and Work Set 5

21. A is thrice efficient as B and C is twice as efficient as B. what is the ratio of number of days taken by A,B and C, when they work individually?

A) 2:6:3

B) 2:3:6

C) 1:2:3

D) 3:1:2

Answer: A

22. A is twice efficient as B and together they do the same work in as much time as C and D together. If C and D can complete the work in 20 and 30 daysrespectively, working alone ,then in how many days A can complete the work individually:

A) 12 days

B) 18 days

C) 24 days

D) 30 days

Answer: B

23. 4 men can repair a road in 7 hours. How many men are required to repair the road in 2 hours ?

A) 17 men

B) 14 men

C) 13 men

D) 16 men

Answer: B

24. A group of workers was put on a job. From the second day onwards, one worker was withdrawn each day. The job was finished when the last worker was withdrawn. Had no worker been withdrawn at any stage, the group would have finished the job in 55% of the time. How many workers were there in the group?

A) 50

B) 40

C) 45

D) 10

Answer: D

25. An air conditioner can cool the hall in 40 miutes while another takes 45 minutes to cool under similar conditions. If both air conditioners are switched on at same instance then how long will it take to cool the room approximately ?

A) 18 minutes

B) 19 minutes

C) 22 minutes

D) 24 minutes

Answer: C

26. When A, B and C are deployed for a task , A and B together do 70% of the work and B and C together do 50% of the work. who is most efficient?

A) A

B) B

C) C

D) can't be determined

Answer: A

27. A, B and C can complete a piece of work in 24,6 and 12 days respectively.Working together, they will complete the same work in:

A) 1/24 days

B) 7/24 days

C) 24/7 days

D) 4 days

 Answer: C

28. A and B can do a work in 4 hours and 12 hours respectively. A starts the work at 6 AM and they work alternately for one hour each. When will the work be completed?

A) 4 days

B) 5 days

C) 6 days

D) 7 days

Answer: C

29. 3 men, 4 women and 6 children can complete a work in 7 days. A woman does double the work a man does and a child does half the work a man does. How many women alone can complete this work in 7 days ?

A) 6

B) 9

C) 5

D) 7

Answer: D

30. A,B,C together can do a piece of work in 10 days.All the three started workingat it together and after 4 days,A left.Then,B and C together completed the work in 10 more days.In how many days can complete a work alone ?

A) 25

B) 24

C) 23

D) 21

Answer: A

Time and Work Set 5