

40 Days Lockdown Prepare With New Questions Every Day



Direction (1 – 5) : Read the table chart and answer the questions that follow. Given below is a table showing certain percentage of work done by different persons. Remaining percentage of work is done by D.

Person	Percentage of work done	No. Of days worked
A	25%	5
B	20%	4
C	10%	4
D	-	4
E	20%	-

- In how many days, A and D will do the whole work?
 - 8.88 days
 - 11.21 days
 - 21 days
 - 11 days
 - 13 days
- B and E together do the work in $9\frac{1}{11}$ days. In how many days E can do the work alone?
 - 20 days
 - 21 days
 - 18 days
 - 15 days
 - 16.67 days
- AB, BC, CD does the work in the given combo and order as given respectively and the cycle repeats. So in how many days 40% work will be done?
 - 5
 - 4
 - 4.5
 - 10
 - None of the above
- $\frac{1}{5}$ th of the work was done by A and B, then half of the left work was done by D and at last the rest of work was done by B and C. Find the number of total days taken to do the whole work.
 - 15
 - 14
 - 13.73
 - 12.5
 - 13.48
- F can do the whole work in 15 days more than A. If F works with 50% more

- efficiency then in how many days he can do the whole work?
- 30
 - 22
 - 25
 - 24
 - 23.33

Direction (6 – 10) : Study the following table carefully and answer the questions given below:

The number of persons visiting six different temples and percentage of Men, Women and Children visiting those temples

Names of the Temples	Total number of Persons	Percentage of		
		Men	Women	Children
P	34500	35	–	10
Q	72500	–	45	15
R	45600	35	42	–
S	56800	45	–	27
T	42500	–	65	20
U	64600	30	–	12

- The number of men visiting Temples S are approximately what per cent of the total number of person visiting all the temples together?
 - 8%
 - 12%
 - 10.5%
 - 15%
 - None of these
- The number of children visiting Temple R is what per cent of the number of children visiting Temple T and U together?
 - 54.5%
 - 44.5%
 - 64.5%
 - 67.5%
 - None of these
- What is the total number of visitor children and men together visiting Temple Q and Temple R together?
 - 62523
 - 66358
 - 64323
 - 66323
 - None of these

9. What is the approximate average number of women visiting all the Temples together?

- A. 25692
- B. 25212
- C. 25292
- D. 22292
- E. None of these

10. What is the ratio of the number of women visiting Temple P to that of those visiting Temple R?

- A. 6325:6384
- B. 6625:6383
- C. 6125:6381
- D. 6825:6184
- E. None of these

Direction (11 – 15) : An organization has 8 departments. The table below gives information about the number of members in each of the departments, the age of the oldest and the youngest member of the departments and the average age of the departments. Some of the data is missing:

Department	No of employees	Age of oldest member	Age of youngest member	Average age of team
Content	7	42	27	32.86
Finance	4	45	34	
HR	3	44	35	39
Operations	6	52	29	
Production		46	35	40
R&D	5	54	28	40.4
Sales	8			33
Technical	6			

11. If there are a total of 44 employees, what is the average age of the employees apart from the youngest and oldest members in the production team?

- A. 40 years
- B. 39.67 years
- C. 39.5 years
- D. 39.4 years
- E. 39.25 years

12. If the age of the 3rd person in HR is equal to the average age of the remaining 2 persons in finance, what is the average age of the members of finance team?

- A. 38.75 years
- B. 39 years
- C. 39.25 years
- D. 40 years
- E. None of these

13. The ages of the members of sales team is in arithmetic progression. If no employee in the company is below 20 years, what is the age of the oldest member of the sales team? Age of every member is an integer in years.

- A. 47 years
- B. 45 years
- C. 41 years
- D. 40 years
- E. 37 years

14. The ratio of the ages of the oldest and the youngest member of the technical team is 5:3. If the average age of the remaining members of the team is 35.5, what could be the possible average age of the technical team? Age of every member is an integer in years.

- A. 37.17 years
- B. 36.83 years
- C. 36.5 years
- D. 36 years
- E. 35.67 years

15. If the average age of the remaining members of operations team is 3 years more than the average age of the remaining members of R&D team, what is the average age of the operations team?

- A. 41.33 years
- B. 41.83 years
- C. 42.17 years
- D. 42.5 years
- E. 43 years

16. The number of men visiting Temples S are approximately what per cent of the total number of person visiting all the temples together?

- A. 8%
- B. 12%
- C. 10.5%
- D. 15%
- E. None of these

17. The number of children visiting Temple R is what per cent of the number of children visiting Temple T and U together?

- A. 54.5%
- B. 44.5%

- C. 64.5%
- D. 67.5%
- E. None of these

18. What is the total number of visitor children and men together visiting Temple Q and Temple R together?

- A. 62523
- B. 66358
- C. 64323
- D. 66323
- E. None of these

19. What is the approximate average number of women visiting all the Temples together?

- A. 25692
- B. 25212
- C. 25292
- D. 22292
- E. None of these

20. What is the ratio of the number of women visiting Temple P to that of those visiting Temple R?

- A. 6325:6384
- B. 6625:6383
- C. 6125:6381
- D. 6825:6184
- E. None of these

21. The number of men visiting Temples S are approximately what per cent of the total number of person visiting all the temples together?

- A. 8%
- B. 12%
- C. 10.5%
- D. 15%
- E. None of these

22. The number of children visiting Temple R is what per cent of the number of children visiting Temple T and U together?

- A. 54.5%
- B. 44.5%
- C. 64.5%
- D. 67.5%
- E. None of these

23. What is the total number of visitor children and men together visiting Temple Q and Temple R together?

- A. 62523
- B. 66358
- C. 64323
- D. 66323
- E. None of these

24. What is the approximate average number of women visiting all the Temples together?

- A. 25692
- B. 25212
- C. 25292
- D. 22292
- E. None of these

25. What is the ratio of the number of women visiting Temple P to that of those visiting Temple R?

- A. 6325:6384
- B. 6625:6383
- C. 6125:6381
- D. 6825:6184
- E. None of these

###ANSWERS###

1. Ans. A.

A does 25% of work in 5 days, 100% work will be done in 20 days
D does $(100 - (25 + 20 + 10 + 20)) = 25\%$ of work in 4 days, 100% work will be done in 16 days

Total work = $LCM(20, 16) = 80$ units

A does = $80/20 = 4$ units/day

D does = $80/16 = 5$ units/day

A+D = $4+5 = 9$ units/day

So, total work will be done in = $80/9$ days = 8.88 days

2. Ans. E.

B does 20% work in 4 days then 100% will be done in 20 days.

Let the total amount of work be 100 units.
B does 5 units/day.

$B+E = 100 / (9 + \frac{1}{11})$ units/day = 11 units/day

E does $(11-5) = 6$ units/day

The required answer = $100/6 = 16.67$ days

3. Ans. C.

A's efficiency 20 days to do whole work

B's efficiency 20 days to do whole work

C's efficiency 40 days to do whole work

D's efficiency 16 days to do whole work

Total units of work = $LCM(20, 20, 40, 16) = 320$ units

A = 16units/day

B = 16units/day

C = 8 units/day

D = 20units/day

40% of whole work is = $320 * 0.4 = 128$ units

A+B = $16+16 = 32$ units/day

B+C = $16+8 = 24$ units/day

C+D = $8+20 = 28$ units/day

Now left amount of target work = $128 - (32+24+28) = 44$ units

4th day work done = A+B = 32, so left = $44 - 32 = 12$

The required answer is = 4.5 days

4. Ans. C.

A, B, C and D separately can do the work in 20, 20, 40 and 16 days respectively.

Total work = $LCM(20, 20, 40, 16) = 320$ units

A = 16units/day

B = 16units/day

C = 8 units/day

D = 20units/day

A+B = $16+16 = 32$ units/day

B+C = $16+8 = 24$ units/day

1/5th work will be done in $(320/5)/32 = 2$ days by A and B.

Half of the left work = $\frac{320-64}{2} = 128/20 = 6.4$ days

Rest is done = $128/24 = 5.33$ days

The answer is = $2+6.4+5.33 = 13.73$ days

5. Ans. E.

A needs 20 days to do whole work

So, F will take 35 days to do the whole job.

The total work be 140 units (LCM of 20, 35).

F -> 4 units/day

50% more efficiency means = 6units/day

So, the required answer is = $140/6 = 23.33$ days

6. Ans. A.

Total number of men visiting Temples S

= $(56800 * 45) / 100 = 25560$

Total number of person visiting all the temples

= $(34500 + 72500 + 45600 + 56800 + 42500 + 64600) = 316500$

Required percentage = $(25560 * 100) / 316500 = 8\%$

7. Ans. C.

Total number of children visiting Temple R

= $(45600 * 23) / 100 = 10488$

Total number of children visiting Temple T and U

= $(42500 * 20) / 100 + (64600 * 12) / 100 = 8500 + 7752 = 16252$

Required percentage = $(10488 * 100) / 16252 = 64.5\%$

8. Ans. D.

Total number of visitors children and men together visiting Temple Q

= $(72500 * 55) / 100 = 39875$

Total number of visitors children and men together visiting Temple R

= $(45600 * 58) / 100 = 26448$

Required number = $(39875 + 26448) = 66323$

9. Ans. C.
 Total number of women visiting all the Temples
 $(34500 \times 55)/100 + (72500 \times 45)/100 + (45600 \times 42)/100 + (56800 \times 28)/100 + (42500 \times 65)/100 + (64600 \times 58)/100$
 $= (18975 + 32625 + 19152 + 15904 + 27625 + 37468) = 151749$
 Required average = $151749/6 = 25291.5 = 25292$

10. Ans. A.
 Total number of women visiting Temple P
 $= (34500 \times 55)/100 = 18975$
 Total number of women visiting Temple R
 $= (45600 \times 42)/100 = 19152$
 Required ratio = $18975/19152 = 6325:6384$

11. Ans. B.
 Number of members in production team
 $= 44 - (7+4+3+6+5+8+6) = 5$
 Total age of remaining members = $40 \times 5 - (46 + 35) = 119$
 Average age of remaining 3 members = $119/3 = 39.67$ years

12. Ans. A.
 Age of the 3rd person in HR = $39 \times 3 - (44+35) = 38$ years
 Total age of the members of finance team
 $= 45+34 + 38 \times 2 = 155$ years
 Average age = $155/4 = 38.75$ years

13. Ans. D.
 Let the ages of the members of the sales team be a, a+d, a+2d, ... a+7d
 Sum of their ages = $a + (a+d) + (a+2d) + \dots + (a+7d) = 33 \times 8 = 264$
 $\Rightarrow 8a + 28d = 264$
 Putting d = 1, 2, 3, 4...

d	a
1	29.5
2	26
3	22.5
4	19

Since no employee in the company is below 20 years, we will take the values of a and d as 26 and 2 respectively.
 Hence, the age of the oldest member of the sales team = $26 + 14 = 40$ years

14. Ans. E.
 Let the ages of the oldest and the youngest member of the technical team be 5a and 3a respectively.

Total age of the team = $8a + 35.5 \times 4 = 8a + 142$
 Average age = $(8a + 142)/6 = (4a+71)/3$
 for the minimum value of a
 $5a > 35.5$
 $a > 7$
 for the maximum a
 $3a < 35.5$
 $a < 11$
 Putting a = 7, 8, 9, 10...

a	Average age
7	33
8	34.33
9	35.67
10	37

Hence, the possible average age is 35.67 years

15. Ans. C.
 The average age of the remaining members of R&D team = $(5 \times 40.4 - 54 - 28)/3 = 40$ years

The average age of the remaining members of operations team = 43 years
 The average age of the operations team = $(52+29 + 4 \times 43)/6 = 42.17$ years

16. Ans. A.
 Total number of men visiting Temples S
 $= (56800 \times 45)/100 = 25560$
 Total number of person visiting all the temples

$= (34500 + 72500 + 45600 + 56800 + 42500 + 64600) = 316500$
 Required percentage = $(25560 \times 100)/316500 = 8\%$

17. Ans. C.
 Total number of children visiting Temple R
 $= (45600 \times 23)/100 = 10488$
 Total number of children visiting Temple T and U
 $= (42500 \times 20)/100 + (64600 \times 12)/100 = 8500 + 7752 = 16252$
 Required percentage = $(10488 \times 100)/16252 = 64.5\%$

18. Ans. D.
 Total number of visitors children and men together visiting Temple Q
 $= (72500 \times 55)/100 = 39875$
 Total number of visitors children and men together visiting Temple R

$$= (45600 \times 58) / 100 = 26448$$
$$\text{Required number} = (39875 + 26448) = 66323$$

19. Ans. C.

Total number of women visiting all the Temples

$$(34500 \times 55) / 100 + (72500 \times 45) / 100 + (45600 \times 42) / 100 + (56800 \times 28) / 100 + (42500 \times 65) / 100 + (64600 \times 58) / 100$$

$$= (18975 + 32625 + 19152 + 15904 + 27625 + 37468) = 151749$$

$$\text{Required average} = 151749 / 6 = 25291.5 = 25292$$

20. Ans. A.

Total number of women visiting Temple P = $(34500 \times 55) / 100 = 18975$

Total number of women visiting Temple R = $(45600 \times 42) / 100 = 19152$

$$\text{Required ratio} = 18975 / 19152 = 6325 : 6384$$

21. Ans. A.

Total number of men visiting Temples S = $(56800 \times 45) / 100 = 25560$

Total number of person visiting all the temples

$$= (34500 + 72500 + 45600 + 56800 + 42500 + 64600) = 316500$$

$$\text{Required percentage} = (25560 \times 100) / 316500 = 8\%$$

22. Ans. C.

Total number of children visiting Temple R

$$= (45600 \times 23) / 100 = 10488$$

Total number of children visiting Temple T and U

$$= (42500 \times 20) / 100 + (64600 \times 12) / 100 = 8500 + 7752 = 16252$$

$$\text{Required percentage} = (10488 \times 100) / 16252 = 64.5\%$$

23. Ans. D.

Total number of visitors children and men together visiting Temple Q

$$= (72500 \times 55) / 100 = 39875$$

Total number of visitors children and men together visiting Temple R

$$= (45600 \times 58) / 100 = 26448$$

$$\text{Required number} = (39875 + 26448) = 66323$$

24. Ans. C.

Total number of women visiting all the Temples

$$(34500 \times 55) / 100 + (72500 \times 45) / 100 + (45600 \times 42) / 100 + (56800 \times 28) / 100 + (42500 \times 65) / 100 + (64600 \times 58) / 100$$

$$= (18975 + 32625 + 19152 + 15904 + 27625 + 37468) = 151749$$

$$\text{Required average} = 151749 / 6 = 25291.5 = 25292$$

25. Ans. A.

Total number of women visiting Temple P = $(34500 \times 55) / 100 = 18975$

Total number of women visiting Temple R = $(45600 \times 42) / 100 = 19152$

$$\text{Required ratio} = 18975 / 19152 = 6325 : 6384$$

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