

Quiz Date: 6th April 2020

Q1. X takes 4 days to complete one-third of a job, Y takes 3 days to complete one-sixth of the same work and Z takes 5 days to complete half the job. If all of them work together for 3 days and then X and Z quit, how long will it take for Y to complete the remaining work done.

- (a) 6 days
- (b) 8.1 days
- (c) 5.1 days
- (d) 7 days
- (e) None of these

Q2. A, B and C working together completed a job in 10 days. However, C only worked for the first three days when $\frac{37}{100}$ of the job was done. Also, the work done by A in 5 days is equal to the work done by B in 4 days. How many days would be required by the fastest worker to complete the entire work?

- (a) 20 days
- (b) 25 days
- (c) 30 days
- (d) 40 days
- (e) None of these

Q3. Three men A, B and C working together 8 hours per day can print 960 pages in 20 days. In an hour B prints as many pages more than A as C prints as many pages more than B in an hour. The number of pages printed by A in 4 hours equal to the number of pages printed by C in 1 hours. How many pages B prints in each hour?

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 6

Q4. A and B together can do a work in 10 days. C can destroy the same work in 28 days. A and B started the work and work for 12 days simultaneously and C started with them for destroying the work for same 12 days. After that A and C leave and B complete the remaining work in 4 days in how many days A alone can complete the same work.

- (a) $\frac{71}{3}$ days
- (b) 23 days
- (c) 20 days
- (d) 15 days
- (e) $\frac{70}{3}$ days

Q5. Anshu can do as much work in 2 days as Bahu can do in 3 days and Bahu can do as much in 4 days as Daya in 5 days. A piece of work takes 20 days if all work together. How long Bahu take to do all the work by himself ?

- (a) 82 days

- (b) 44 days
- (c) 66 days
- (d) 50 days
- (e) 62 days

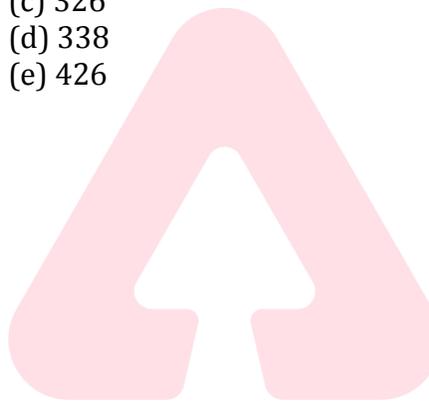
Directions (6-10): What should come in place of the question mark (?) in the following questions?

Q6. $(-251 \times 21 \times -12) \div ? = 158.13$

- (a) 250
- (b) 400
- (c) 300
- (d) 15
- (e) 18

Q7. $[(130)^2 \div 25 \times 15] \div 30 = ?$

- (a) 352
- (b) 314
- (c) 326
- (d) 338
- (e) 426



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Q8. $(6.5\% \text{ of } 375) - (0.85\% \text{ of } 230) = ?$

- (a) 23.42
- (b) 24.24
- (c) 21.64
- (d) 25.76
- (e) 22.42

Q9. $?^2 + (14)^2 \times 18 \div 6 - 1029 = 80 \times (12 - 7)$

- (a) 25
- (b) 841
- (c) 729
- (d) 27
- (e) 29

Q10. $(4444 \div 40) + (645 \div 25) + (3991 \div 26) = ?$

- (a) 280.4
- (b) 290.4
- (c) 295.4
- (d) 285.4
- (e) 258.5

Directions (11 –15): Study the following information carefully to answer the questions.
In a comparative study of population of six states. A, B, C, D, E and F the following were observed.

Female population of state A is 120% of the male population of state C and 90% of the female population of state D.

Male population of state B is 125% of the male population of state D and $1\frac{11}{14}$ times of the male population of state E. Male and female populations of state D are in the ratio of 13 : 12 respectively.

Male population of state A is $\frac{5}{11}$ th of the total population of the state which is 198000.

Female population of state C is 110% of the female population of state A and 75% of the male population of state F.

Male and female populations of state E are in the ratio of 7 : 8 respectively.

Female population of state B is 150% of the male population of state A.

Female population of state F is equal to the male population of state D.

Q11. Male population of state A is what percent more or less than female population of state B?

- (a) $14\frac{2}{7}\%$
- (b) $16\frac{2}{3}\%$
- (c) $25\frac{2}{3}\%$
- (d) $33\frac{1}{3}\%$
- (e) $28\frac{2}{7}\%$

Q12. What is the ratio of male population of state C to the female population of state F?

- (a) 7 : 12
- (b) 8 : 15
- (c) 9 : 13
- (d) 11 : 16
- (e) 10 : 13

Q13. What is the total population in state D?

- (a) 1,80,000
- (b) 2,50,000
- (c) 2,10,000
- (d) 2,60,000
- (e) 2,00,000

Q14. What is the average of female population from state A, B and D together?

- (a) 1,21,000
- (b) 1,22,000
- (c) 1,18,000
- (d) 1,15,000
- (e) 1,24,000

Q15. What is the total population of state F?

- (a) 1,90,600
- (b) 2,58,600
- (c) 2,22,400
- (d) 1,53,500
- (e) 2,88,400



Solutions

S1. Ans.(c)

$$\text{Sol. per day work of X} = \frac{1}{12}$$

$$\text{per day work of Y} = \frac{1}{18}$$

$$\text{per day work of Z} = \frac{1}{10}$$

Let Y take n days to complete remaining work then

$$\frac{3}{12} + \frac{3}{18} + \frac{3}{10} + \frac{n}{18} = 1$$

$$\frac{n}{18} = 1 - \frac{1}{4} - \frac{1}{6} - \frac{3}{10}$$

$$= \frac{60 - 15 - 10 - 18}{60}$$

$$\Rightarrow \frac{n}{18} = \frac{17}{60}$$

$$n = \frac{17 \times 18}{60} = n = 5.1 \text{ days}$$

S2. Ans.(a)

Sol.

3 days work = 37%

Remaining 63% done by (A + B) in 7 day

(A + B)'s 1 day's work = 9%

So,

A one day's work = 4%

B one day work = 5%

C's 3 days work = 37% - 27% = 10%

So fastest is B and complete work in 20 days.

S3. Ans.(b)

Sol. (A + B + C) per hour = $\frac{960}{20 \times 8} = 6$... (i)

Let C prints $4x$ pages per hour.

∴ A will print x pages per hour.

According to question

C - B = B - A

⇒ $2B = A + C$

⇒ $B = \frac{5x}{2}$

From (i)

$x + \frac{5x}{2} + 4x = 6$

⇒ $7.5x = 6$ ⇒ $x = \frac{6}{7.5}$

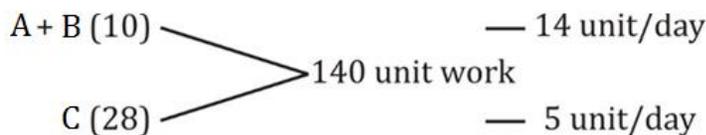
∴ No. of pages print by B per hour = $\frac{5}{2} \times \frac{6}{7.5} = 2$

S4. Ans.(e)

Sol.

A and B can do a work → 10 days

C can destroy the work → 28 days



After 12 days

$14 \times 12 - 5 \times 12 = 108$ -unit work done

B complete the work in 4 days

$\frac{140 - 108}{4} = 8$ unit/day (B's efficiency)

A's efficiency = $14 - 8 = 6$ unit/days

A can complete work

= $\frac{140}{6}$ day = $23\frac{1}{3}$ days

S5. Ans.(c)

Sol.

Ratio of efficiencies of Anshu, Bahu and Daya respectively

$$= \frac{3}{2} : 1 : \frac{4}{5}$$

$$= 15 : 10 : 8$$

∴ Time taken by Bahu

$$= \frac{33}{10} \times 20$$

$$= 66 \text{ days}$$

S6. Ans.(b)

Sol.

$$\frac{(-251 \times 21 \times (-12))}{?} = \frac{15813}{100}$$

$$? = 400$$

S7. Ans.(d)

Sol.

$$? = \left[\frac{130 \times 130}{25} \times 15 \right] \frac{1}{30} = 338$$



S8. Ans.(e)

Sol.

$$? = 24.375 - 1.955 = 22.420$$

S9. Ans.(e)

Sol.

$$?^2 - 441 = 80 \times 5$$

$$\Rightarrow ? = \sqrt{841}$$

$$\Rightarrow ? = 29$$

S10. Ans.(b)

Sol.

$$? = 111.1 + 25.8 + 153.5$$

$$= 290.4$$

S (11-15)

State	Male	Female
A	90,000	1,08,000
B	1,62,500	1,35,000
C	90,000	1,18,800
D	1,30,000	1,20,000
E	91,000	1,04,000
F	1,58,400	1,30,000

S11. Ans.(d)

Sol.

$$\text{Required percentage} = \frac{1,35,000 - 90,000}{1,35,000} \times 100 = \frac{45,000}{1,35,000} \times 100 = 33\frac{1}{3}\%$$

S12. Ans.(c)

Sol.

$$\text{Required ratio} = \frac{90,000}{1,30,000} = 9 : 13$$

S13. Ans.(b)

Sol.

$$\text{Total population of state} = 1,30,000 + 1,20,000 = 2,50,000$$

S14. Ans.(a)

Sol.

$$\begin{aligned} \text{Average of female population of state A, B and D together} \\ &= \frac{108000 + 135000 + 120000}{3} \\ &= 121000 \end{aligned}$$

S15. Ans.(e)

Sol.

$$\text{Total population of F} = 1,58,400 + 1,30,000 = 2,88,400$$

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