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Time and Work Questions for RBI Asst. Pre, IBPS Clerk Pre, IBPS RRB Office Asst. Pre and SBI Clerk Pre Exams

Time and Work Quiz 17

Directions : Read the following questions carefully and choose the right answer.

- Amir can do a piece of job in 15 days and Bhupen can do it in 21 days. They work together for 5 days and then Bhupen left. How long Amir takes to finish the remaining work?
A. $5\frac{1}{2}$ days B. $4\frac{2}{7}$ days C. $6\frac{4}{7}$ days D. $6\frac{3}{7}$ days E. $5\frac{2}{7}$ days
- Kapil can do 40% of the work in 10 days, Sunil can do $\frac{1}{5}$ th of the same work in 5 days. In how many days can they together do $\frac{3}{5}$ th of the work?
A. $8\frac{1}{2}$ days B. $6\frac{1}{4}$ days C. $9\frac{1}{4}$ days D. $7\frac{1}{2}$ days E. $8\frac{1}{4}$ days
- Amit can do a piece of work in 20 days and Amit and Ronit together can do the work in $\frac{15}{2}$ days. If Ronit works at 40% of his efficiency, in how many days can Ronit complete the whole work alone?
A. 35 days B. 30 days C. 24 days D. 32 days E. 25 days
- Ankit, Piyush and Sourabh can complete a piece of work in 12, 16 and 28 days respectively. Ankit starts the work and works alone for $2x$ days, after which Piyush completes 25% of the work alone in x days and then Sourabh completes rest of the work. In how many days the work is completed?
A. $14\frac{1}{3}$ days B. $11\frac{3}{8}$ days C. $12\frac{1}{4}$ days D. $13\frac{3}{8}$ days E. $14\frac{3}{5}$ days
- Ajay and Ravi can do a piece of work in 16 days, Ravi and Shubh can do the same work in 20 days and Shubh and Ajay can do the work in 24 days. If Ajay works everyday and Ravi and Shubh join him on alternate days starting with Ravi, then how much time is taken to complete the entire work?
A. 20 days B. 18 days C. 21 days D. 19 days E. 17 days

6. Arman, Sahil and Rommy together can complete a work in 4 days. The same work can also be completed when Arman and Sahil together work for 2 days and then Rommy works alone for $19/2$ days. Find the time taken by Rommy alone to do the work?
- A. 12 days B. 15 days C. 11 days D. 10 days E. 9 days
7. The ratio of efficiency of Amit and Sumit is 4 : 5 respectively and efficiency of Ram is 40% more than efficiency of Sumit. Sumit takes 12 days more than Ram to complete the work. Find the time taken by Amit, Sumit and Ram together to complete the work?
- A. $12\frac{1}{8}$ days B. $11\frac{1}{8}$ days C. $14\frac{1}{8}$ days D. $10\frac{1}{8}$ days E. $13\frac{1}{8}$ days
8. The efficiency of Suresh is reduced by 20% due to injury, so he takes 15 more days than he takes to complete the work with full efficiency. Find the time he takes to complete the work if he works with full efficiency?
- A. 50 days B. 54 days C. 55 days D. 60 days E. 45 days
9. Pankaj can do $1/3$ rd of the work alone in 12 days. Deepak can do 20% of work alone in 10 days. Suraj can do half of the work alone in 20 days. Find the total time taken by them to complete the work together?
- A. $14\frac{97}{131}$ B. $15\frac{97}{131}$ C. $13\frac{97}{131}$ D. $11\frac{97}{131}$ E. $12\frac{97}{131}$
10. Arun and Deepak can do a work in 12 and 28 hours respectively. They started working together and after 8 hours, Deepak left. Remaining work is completed by Arun. In what time the work will be finished?
- A. $8\frac{4}{7}$ hours B. $7\frac{1}{7}$ hours C. $9\frac{2}{7}$ hours D. $5\frac{5}{7}$ hours E. $6\frac{3}{7}$ hours



Correct Answers:

1	2	3	4	5	6	7	8	9	10
D	D	B	A	D	B	E	D	C	A

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Explanation:

1. Amir takes 15 days to finish the job.

Bhupen takes 21 days to finish the job.

Total work = LCM {15, 21} = 105 units

Units of work done by Amir in 1 day

$$= \frac{105}{15} = 7 \text{ units}$$

Units of work done by Bhupen in 1 day

$$= \frac{105}{21} = 5 \text{ units}$$

Units of work done by Amir and Bhupen in 1 day = 12 units

Work done in 5 days = $12 \times 5 = 60$ units

Work left = $105 - 60 = 45$

$$\text{Time taken by Amir} = \frac{45}{7} = 6\frac{3}{7} \text{ days}$$

Hence, option D is correct.

2. Kapil do $\frac{2}{5}$ th of the job in = 10 days

He completes the job in = $\frac{10 \times 5}{2} = 25$ days

Sunil do $\frac{1}{5}$ th of job in = 5 days

He completes the job in = $5 \times 5 = 25$ days

Total job = LCM {25, 25} = 25 units

Efficiency of both Kapil and Sunil is 1 unit.

$$3/5^{\text{th}} \text{ of the job} = \frac{25 \times 3}{5} = 15 \text{ units}$$

$$\text{Reqd. time} = \frac{15}{2} = 7\frac{1}{2} \text{ days}$$

Hence, option D is correct.

3. Amit can do the work in 20 days.

Amit and Ronit can do the work in 15/2 days.

Total work = LCM {20, 15/2} = 60 units

Efficiency of Amit = 3 units

$$\text{Efficiency of Amit and Ronit} = \frac{60 \times 2}{15} = 8$$

Efficiency of Ronit = 8 – 3 = 5 units

$$\text{New efficiency of Ronit} = \frac{5 \times 40}{100} = 2 \text{ units}$$

$$\text{Time taken by Ronit} = \frac{60}{2} = 30 \text{ days}$$

Hence, option B is correct.

4. Time taken by Ankit = 12 days

Time taken by Piyush = 16 days

Time taken by Sourabh = 28 days

Total work = LCM{12, 16 and 28} = 336 units

Efficiency of Ankit = 28 units/day

Efficiency of Piyush = 21 units/day

Efficiency of Sourabh = 12 units/day

Total efficiency = $28 + 21 + 12 = 61$

Piyush completes 25% of the work in x days

So, Piyush works for $16/4 = 4$ days and completes $336/4 = 84$ units

A works for $2x = 2 \times 4 = 8$ days

Total work completed by A = $28 \times 8 = 224$ units

Remaining work = $336 - (224 + 84) = 28$ units

Time taken by C to complete remaining work = $\frac{28}{12} = 2\frac{1}{3}$ days

Total time taken to complete the work = $4 + 8 + 2(1/3) = 14(1/3)$ days

Hence, option A is correct.

5. A + R → 16 days

R + S → 20 days

S + A → 24 days

Total work = LCM {16, 20, 24} = 240 units

Efficiency of A and R = $\frac{240}{16} = 15$

Efficiency of R and S = $\frac{240}{20} = 12$

Efficiency of S and A = $\frac{240}{24} = 10$

Units of work done by A and R on first day = 15 units

Units of work done by S and A on the second day = 10 units

$$2 \text{ days work} = 15 + 10 = 25 \text{ units}$$

$$\text{Work done in } 2 \times 9 \text{ i.e. } 18 \text{ days} = 25 \times 9 = 225 \text{ units}$$

$$\text{Work left} = 240 - 225 = 15 \text{ units}$$

Time taken by A and R to do 15 units work

$$= \frac{15}{15} = 1 \text{ day}$$

Total time = 19 days

Hence, option D is correct.

6. Let the time taken by Arman, Sahil and Rommy be X, Y and Z respectively.

$$\left\{ \frac{1}{X} + \frac{1}{Y} + \frac{1}{Z} \right\} = \frac{1}{4} \dots (i)$$

$$\frac{2\left\{ \frac{1}{X} + \frac{1}{Y} \right\} + \frac{19}{Z}}{2Z} = 1 \dots (ii)$$

Multiply (i) by 2, and subtract (ii) from (i)

$$\frac{2\left\{ \frac{1}{X} + \frac{1}{Y} \right\} + 2}{Z} - \frac{2\left\{ \frac{1}{X} + \frac{1}{Y} \right\} - \frac{19}{Z}}{2Z} = \frac{1}{2} - 1$$

$$\frac{2}{Z} - \frac{19}{2Z} = -\frac{1}{2}$$

$$\frac{(4 - 19)}{2Z} = -\frac{1}{2}$$

$$-15 = -Z$$

$$Z = 15 \text{ days}$$

Hence, option B is correct.

7.

$$\frac{5 \times 40}{100} = 2, \text{ efficiency of Ram} = 5 + 2 = 7$$

$$A : S : R = 4 : 5 : 7$$

$$\text{Efficiency ratio, } S : R = 5 : 7$$

$$\text{Time ratio, } S : R = 7 : 5$$

S takes 12 days more to complete the work,

2 corresponds to 12

$$5 \text{ corresponds to } = \frac{12 \times 5}{2} = 30 \text{ days}$$

$$7 \text{ corresponds to } = \frac{12 \times 7}{2} = 42 \text{ days}$$

Ram takes 30 days and Sumit takes 42 days

$$\text{Total work} = 30 \times 7 = 210$$

$$\text{Time} = \frac{210}{4 + 5 + 7} = \frac{210}{16}$$

$$= \frac{105}{8} = 13\frac{1}{8} \text{ days}$$

Hence, option E is correct.

8. Efficiency reduced by 20%

$$\text{Efficiency ratio} \Rightarrow 80 : 100 = 4 : 5$$

$$\text{Time ratio} = 5 : 4$$

The value of 1 is 15 days

Original time i.e., 4 corresponds to = $4 \times 15 = 60$ days

Hence, option D is correct.

9. Pankaj can do $\frac{1}{3}^{\text{rd}}$ of the work in 12 days

Total work done by Pankaj in 36 days

Deepak can do 20% of the work in 10 days

Total work done by Deepak in 50 days

Suraj can do half of the work in 20 days

Total work done by Suraj in 40 days

Total work = $\text{LCM}\{36, 50, 40\} = 1800$

Efficiency of Pankaj = $\frac{1800}{36} = 50$

Efficiency of Deepak = $\frac{1800}{50} = 36$

Efficiency of Suraj = $\frac{1800}{40} = 45$

Time taken to finish the work

$$= \frac{1800}{50 + 36 + 45} = 13\frac{97}{131}$$

Hence, option C is correct.

10. Total work = LCM {12, 28} = 84

$$\text{Efficiency of Arun} = \frac{84}{12} = 7$$

$$\text{Efficiency of Deepak} = \frac{84}{28} = 3$$

Their 1 hour's work = $7 + 3 = 10$ units

Their 8 hour's work = $10 \times 8 = 80$

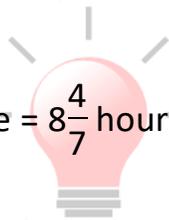
Work left = $84 - 80 = 4$ units

4 units of work is done by Arun,

Time taken by Arun to do 4 units of work = $\frac{4}{7}$

Total time = $8\frac{4}{7}$ hours

Hence, option A is correct.



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