

TIME & WORK

(Set – 7)

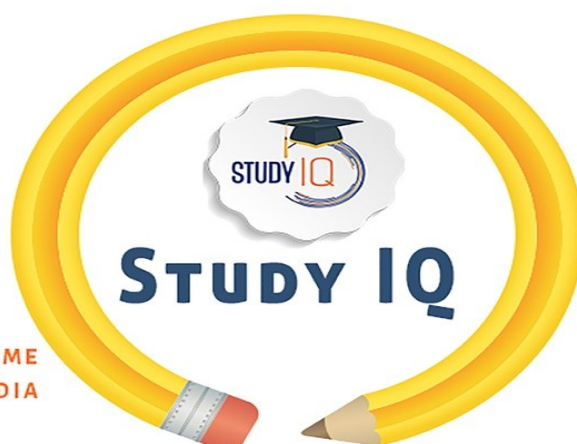
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1) 38 men, working 6 hours a day can do a piece of work in 12 days. Find the number of days in which 57 men working 8 hrs a day can do twice the work. Assume that 2 men of the first group do as much work in 1 hour as 3 men of the second group do in $1\frac{1}{2}$ hrs.

(a) 30 days (b) 27 days (c) 25 days (d) 20 days (e) 15 days

2) Two women undertake to do a piece of work for Rs. 3200. One alone could do it in 6 days, the other in 8 days. With the assistance of a girl they finish it in 3 days. How should the money be divided?

(a) 1600, 1200, 400 (b) 1500, 1300, 400 (c) 1400, 1300, 500 (d) 2000, 800, 400 (e) None

3) Three people A, B and C working individually can finish a job in 10, 12 and 20 days respectively. They decided to work together but after 2 days, A left the work and after another one day, B also left work. If they got two lacs collectively for the entire work, find the difference of the highest and lowest share.

(a) 80000 (b) 75000 (c) 81000 (d) 70000 (e) 72000

4) P, Q and R together do a piece of work for Rs 1212. P working alone could do it in 5 days, Q working alone could do it in 6 days and R working alone could do it in 7 days. How much money Q receives if P works for 4 days, Q works 1 day less than P and 2 days more than R.

(a) 450 (b) 520 (c) 410 (d) 350 (e) 420

5) 3 men can do as much work as 5 boys. The wages of 3 boys are equal to those of 2 men. A piece of work for which 40 boys and 15 men are employed takes 8 weeks and costs Rs 15750. How long would it take if 20 boys and 20 men were employed and how much would it cost?

(a) 78.62, 13542.25 (b) 68.25, 15356.25 (c) 52.25, 14525.25 (d) 62.25, 15460 (e) None

6) 3 small pumps and a large pump are filling a tank. Each of the three small pumps works at $\frac{2}{3}$ rd the rate of the large pump. If all 4 pumps work at the same time, they should fill the tank in what fraction of the time that it would have taken the large pump alone?

(a) $\frac{4}{7}$ (b) $\frac{1}{3}$ (c) $\frac{2}{3}$ (d) $\frac{3}{4}$ (e) None of these

7) A dam has four inlets. Through the first three inlets, the dam can be filled in 12 minutes; through the second, the third and the fourth inlet, it can be filled in 15 minutes; and through the first and the fourth inlet, in 20 minutes. How much time will it take all the four inlets to fill up the dam?

(a) 8 min (b) 10 min (c) 12 min (d) 14 min

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8) A can complete $\frac{1}{4}$ of a work in 10 days, B can complete 40% of the work in 15 days, C completes $\frac{1}{3}$ of the work in 13 days and D $\frac{1}{6}$ of work in 7 days. Who will be able to complete work fastest?

(a) A (b) B (c) C (d) D (e) Can't be determined

9) 6 men and 10 women were employed to make a road 360 km long. They were able to make 150 kilometres of road in 15 days by working 6 hours a day. After 15 days, two more men were employed and four women were removed. Also, the working hours were increased to 7 hours a day. If the daily working power of 2 men and 3 women are equal, find the total number of days required to complete the work.

(a) 25 (b) 34 (c) 30 (d) 24 (e) None

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