1) A alone can complete a work in 12 days. A and B together can complete it in 8 days. How long will B alone take to complete the work ?

a) 20 days b) 16 days
c) 24 days d) 18 days

2) If A and B together can complete a piece of work in 15 days and B alone in 20 days, in how many days can A alone complete the work ?

a) 30 days b) 40 days
c) 60 days d) 45 days

3) If A and B together can complete a work in 12 days, B and C together in 15 days and C and A together in 20 days, then B alone can complete the work in

a) 20 days b) 24 days
c) 30 days d) 25 days

4) A and B can do a piece of work in 12 days, B and C in 8 days and C and A in 6 days. How long would B take to do the same work alone ?

a) 48 days b) 40 days
c) 24 days d) 32 days

5) A and B working together; can do a piece of work in $4\frac{1}{2}$ hours. B and C working together can do it in 3 hours. C and A working together can do it in $2\frac{1}{4}$ hours. All of them begin the work at the same time. Find how much time they will take to finish the piece of work.

a) 3·25 hours b) 2·5 hours
c) 3 hours d) 2 hours

Model 2 'M1D1W1 = M2D2W2'

1) If 5 men or 7 women can earn Rs.5, 250 per day, how much would 7 men and 13 women earn per day ?

a) Rs.11, 600 b) Rs.11, 700
c) Rs.17, 100 d) Rs.16, 100

2) A, B and C together earn Rs.150 per day while A and C together earn Rs.94 and B and C together earn Rs.76. The daily earning of 'C' is

a) Rs.56 b) Rs.20
c) Rs.75 d) Rs.34

3) 2 men and 1 woman together can complete a piece of work in 14 days, while 4 women and 2 men together can do it in 8 days. If a man gets Rs.600 per day, how much should a woman get per day?

a) Rs.400 b) Rs.450
c) Rs.360 d) Rs.480

4) A and B undertook to do a piece of work for Rs.4500. A alone could do it in 8 days and B alone in 12 days. With the assistance

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of C they finished the work in 4 days. Then C's share of the money is

a) Rs.2250 b) Rs.1500
c) Rs.375 d) Rs.750

5) Two men undertook to do a job for Rs.1400. One of them can do it alone in 7 days, and the other in 8 days. With the assistance of a boy they together completed the work in 3 days. How much money will the boy get ?

a) Rs.300 b) Rs.325
c) Rs.250 d) Rs.275

Man leaves & joins

1) A and B can complete a work in 15 days and 10 days respectively. They started doing the work together but after 2 days, B had to leave and A alone completed the remaining work. The whole work was completed in :

a) 8 days b) 12 days
c) 15 days d) 10 days

2) A and B working separately can do a piece of work in 10 days and 15 days respectively. If they work on alternate days beginning with A, in how many days will the work be completed?

a) 13 days b) 12 days
c) 6 days d) 18 days

3) 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) 24 days b) 30 days
c) 36 days d) 18 days

4) A can do a piece of work in 20 days which B can do in 12 days. B worked at it for 9 days. A can finish the remaining work in

a) 7 days b) 11 days
c) 3 days d) 5 days

5) A and B alone can complete work in 9 days and18 days respectively. They worked together; however 3 days before the completion of the work A left. In how many days was the work completed ?

a) 8 days b) 6 days
c) 5 days d) 13 days

Man, Woman, Child

1) If 5 men or 8 women can do a piece of work in 12 days, how many days will be taken by 2 men and 4 women to do the same work?

a) $13\frac{1}{3}$ days b) 15 days
c) $13\frac{1}{2}$ days d) 10 days

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2) If 3 men or 4 women can plough a field in 43 days, how long will 7 men and 5 women take to plough it ?

a) 9 days b) 10 days
c) 11 days d) 12 days

3) A man, a woman and a boy can complete a job in 3, 4 and 12 days respectively. How many boys must assist 1 man and 1 woman to complete the job in $\frac{1}{4}$ of a day?

a) 19 b) 1
c) 4 d) 41

4) A man, a woman and a boy together finish a piece of work in 6 days. If a man and a woman can do the work in 10 and 24 days respectively. The days taken by a boy to finish the work is

a) 40 b) 30
c) 35 d) 45

5) If 40 men or 60 women or 80 children can do a piece of work in 6 months, then 10 men, 10 women and 10 children together do half of the work in

a) $5\frac{7}{13}$ months
b) $5\frac{6}{13}$ months
c) 6 months
d) $11\frac{1}{13}$ months

Split & Fraction of work

1) A does $\frac{2}{5}$ of a work in 9 days. Then B joined him and they together completed the remaining work in 6 days. B alone can finish the whole work in

a) $8\frac{2}{11}$ days b) $6\frac{12}{13}$ days
c) 18 days d) 10 days

2) If 12 men working 8 hours a day complete the work in 10 days, how long would 16 men working $7\frac{1}{2}$ hours a day take to complete the same work?

a) 6 b) 7
c) 8 d) 10

3) x does $\frac{1}{4}$ of a job in 6 days. y completes rest of the job in 12 days. Then x and y could complete the job together in

a) $9\frac{3}{5}$ days b) 9 days
c) $7\frac{1}{3}$ days d) $8\frac{1}{8}$ days

4) A does half as much work as B in one-third of the time taken by B. If together they take 10 days to complete a work, then the time taken by B alone to do it would have been

a) 25 days b) 30 days
c) 12 days d) 6 days

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5) A can do a work in 20 days and B in 40 days. If they work on it together for 5 days, then the fraction of the work that is left is

Efficiency of the worker

1) A can do a work in 9 days, if B is 50% more efficient than A, then in how many days can B do the same work?

a) 3 days b) 13.5 days
c) 4.5 days d) 6 days

2) Tapas works twice as fast as Mihir. If both of them together complete a work in 12 days, Tapas alone can complete it in

a) 24 days b) 15 days
c) 18 days d) 20 days

3) Pratibha is thrices as efficient as Sonia and is therefore able to finish a piece of work in 60 days less than Sonia. Pratibha and Sonia can individually complete the work respectively in

a) 40 days, 120 days
b) 30 days, 60 days
c) 60 days, 90 days
d) 30 days, 90 days

4) A does half as much work as B in one sixth of the time. If together they take 10 days to complete a work, how much time shall B take to do it alone?

a) 50 days b) 70 days
c) 30 days d) 40 days

5) To do a certain work, B would take time thrice as long as A and C together and C twice as long as A and B together. The three men together complete the work in 10 days. The time taken by A to complete the work separately is

a) 20 days b) 22 days
c) 24 days d) 30 days

Working with individual wages

1) 20 men or 24 women can complete a piece of work in 20 days. If 30 men and 12 women undertake to complete the work, the work will be completed in

a) 16 days b) 15 days
c) 10 days d) 12 days

2) 7 men can complete a piece of work in 12 days. How many additional men will be required to complete double the work in 8 days ?

a) 7 b) 14
c) 28 d) 21

3) Two persons can complete a piece of work in 9 days. How many more persons are needed to complete double the work in 12 days?

a) 1 b) 4
c) 3 d) 2

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Solution :

4) If 72 men can build a wall of 280 m length in 21 days, how many men could take 18 days to build a similar type of wall of length 100 m?

a) 28 b) 18
c) 30 d) 10

5) If 4 men or 8 women can do a piece of work in 15 days, in how many days can 6 men and 12 women do the same piece of work ?

a) 30 days b) 15 days
c) 20 days d) 5 days

6) 3 men and 7 women can do a job in 5 days, while 4 men and 6 women can do it in 4 days. The number of days required for a group of 10 women working together, at the same rate as before, to finish the same job is :

a) 20 days b) 40 days
c) 30 days d) 36 days

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