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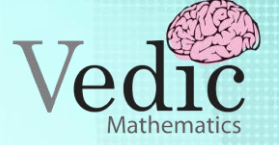
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1) A alone can complete a work in 12 days. A and B together can complete it in 8 days. How long will B alone take to complete the work ?

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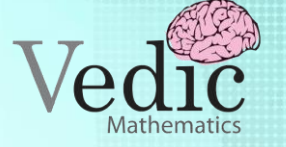
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of C they finished the work in 4 days. Then C's share of the money is

- 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 and 18 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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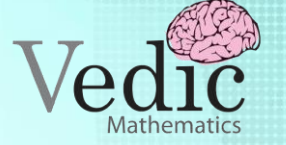
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2) If 3 men or 4 women can plough a field in 43 days, how long will 7 men and 5 women take to plough it ?

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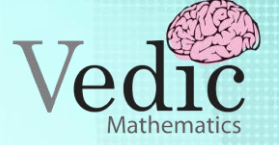
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5) A can do a work in 20 days and B in 40 days. If they work on it together for 5 days, then the fraction of the work that is left is

### 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 thrice 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





**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

