Split and Fraction of work

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Vedic Mathematics

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

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 :

a) $\frac{8}{15}$ b) $\frac{5}{8}$
c) $\frac{1}{10}$ d) $\frac{7}{15}$

6) A can do $\frac{1}{6}$ of a work in 5 days and B can do $\frac{2}{5}$ of the work in 8 days. In how many days, can both A and B together do the work?

a) 13 days b) 12 days
c) 20 days d) 15 days

7) A can complete $\frac{1}{3}$ of a work in 5 days and B, $\frac{2}{5}$ of the work in 10 days. In how many days both A and B together can complete the work?

a) $9\frac{3}{8}$ days b) 10 days
c) $7\frac{1}{2}$ days d) $8\frac{4}{5}$ days

8) A can do one and a half as much of a work which B can do in one day. B alone can do a piece of work in 18 days. They together can finish that work in

a) $11\frac{1}{5}$ days b) $10\frac{1}{5}$ days
c) $7\frac{1}{5}$ days d) $5\frac{1}{5}$ days

9) John does $\frac{1}{2}$ piece of work in 3 hours, Joe does $\frac{1}{4}$ of the remaining work in 1 hour and George finishes remaining work in 5 hours. How long would it have taken the three working together to do the work ?

a) $3\frac{1}{7}$ hours b) $2\frac{1}{7}$ hours
c) $2\frac{8}{11}$ hours d) $3\frac{8}{11}$ hours

10) A can do a work in 10 days and B in 20 days. If they together work on it for 5 days, then the fraction of the work that is left is

a) $\frac{4}{3}$ b) $\frac{3}{4}$
c) $\frac{1}{4}$ d) $\frac{3}{20}$

11) A does half as much work as B in three fourth of the time. If together they take 18 days to complete the work, how much time will B alone take to do it ?

a) 45 days b) 40 days
c) 30 days d) 50 days

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12) Dhiru can dig $\frac{1}{a}$ of a field in 20 hours. What fraction of the same field can Kaku dig in 20 hours if the two of them can dig the field in 60 hours, working together at their respective rates ?

a) $\frac{1}{3a}$ b) $\frac{a-3}{a}$
c) $\frac{a-3}{3a}$ d) $\frac{3a}{a-3}$

13) A can do a certain job in 12 days. B is 60% more efficient than A. Then B can do the same piece of work in

a) $7\frac{1}{2}$ days b) 8 days
c) 6 days d) $6\frac{1}{4}$ days

14) A can finish a work in 18 days and B can do the same work in half the time taken by A. Then working together what part of the same work they can finish in a day ?

a) $\frac{2}{5}$ b) $\frac{1}{6}$
c) $\frac{2}{7}$ d) $\frac{1}{9}$

15) A and B can do a piece of work in 72 days, B and C can do it in 120 days, and A and C can do it in 90 days. When A, B and C work together, how much work is finished by them in 3 days.

a) $\frac{1}{30}$ b) $\frac{1}{40}$
c) $\frac{1}{10}$ d) $\frac{1}{20}$

16) P can complete $\frac{1}{4}$ of a work in 10 days, Q can complete 40% of the same work in 15 days, R, completes $\frac{1}{3}$ of the work in 13 days and S, $\frac{1}{6}$ of the work in 7 days. Who will be able to complete the work first ?

a) Q b) P
c) S d) R

17) A does half as much work as B in three- fourth of the time. If together they take 18 days to complete a work, how much time shall B take to do it alone?

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

18) A contractor undertook to complete a project in 90 days and employed 60 men on it. After 60 days, he found that $\frac{3}{4}$ of the work has already been completed. How many men can he discharge so that the project may be completed exactly on time ?

a) 20 b) 40
c) 15 d) 30

19) A, B and C contract a work for Rs. 440. A and B together are to do $\frac{9}{11}$ of the work. The share of C should be :

a) Rs. 90 b) Rs. 75
c) Rs. 80 d) Rs. 100

20) A and B together can complete a work in 24 days. B alone does $\frac{1}{3}$ rd part of this work in 12 days. How many days will A alone take to complete the remaining work?

a) 36 days b) 24 days
c) 72 days d) 48 days

21) Janardan completes $\frac{2}{3}$ of his work in 10 days. Time he will take to complete $\frac{3}{5}$ of the same work, is

a) 6 days b) 8 days
c) 4 days d) 9 days

22) Two workers A and B are engaged to do a piece of work. A working alone would take 8 hours more to complete the work than when work together. If B worked alone, would take 4 $\frac{1}{2}$ hours more than when

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work together. The time required to finish the work together is

a) 4 hours b) 5 hours
c) 6 hours d) 8 hours

23) A does $\frac{7}{10}$ part of work in 15 days. After that he completes the remaining work in 4 days with the help of B. In how many days will A and B together do the same work ?

a) $12\frac{2}{3}$ days b) $10\frac{1}{3}$ days
c) $8\frac{1}{4}$ days d) $13\frac{1}{3}$ days

24) A company employed 200 workers to complete a certain work in 150 days. If only one fourth of the work has been done in 50 days, then in order to complete the whole work in time, the number of additional workers to be employed was

a) 300 b) 100
c) 200 d) 600

25) A can complete a work in 6 days while B can complete the same work in 12 days. If they work together and complete it, the portion of the work done by A is

a) $\frac{2}{3}$ b) $\frac{1}{3}$
c) $\frac{1}{2}$ d) $\frac{1}{4}$

26) A alone can do a piece of work in 20 days and B alone in 30 days. They begin to work together. They will finish half of the work in :

a) 9 days b) 8 days
c) 6 days d) 12 days

27) If 28 men complete $\frac{7}{8}$ of a piece of work in a week, then the number of men, who must be engaged to get the remaining work completed in another week, is

a) 6 b) 5
c) 3 d) 4

28) A contractor was engaged to construct a road in 16 days. After working for 12 days with 20 labours it was found that only $\frac{5}{8}$ th of the road had been constructed. To complete the work in stipulated time the number of extra labours required is :

a) 10 b) 18
c) 16 d) 12

29) A can do $\frac{7}{8}$ of work in 28 days, B can do $\frac{5}{6}$ of the same work in 20 days. The number of days they will take to complete if they do it together is

a) $17\frac{3}{5}$ days b) $15\frac{3}{7}$ days
c) $13\frac{5}{7}$ days d) $14\frac{5}{7}$ days

30) A and B work together to complete the rest of a job in 7 days. However, $\frac{37}{100}$ of the job was already 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) 25 b) 20
c) 10 d) 30

31) A can cultivate $\frac{2}{5}$ th of a land in 6 days and B can cultivate $\frac{1}{3}$ rd of the same land in 10 days. Working together A and B can cultivate $\frac{4}{5}$ th of the land in:

a) 5 days b) 4 days
c) 10 days d) 8 days

32) P can do $\frac{1}{4}$ th of work in 10 days, Q can do 40% of work in 40 days and R can do $\frac{1}{3}$ rd of work in 13 days. Who will complete the work first?

a) Q b) P

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c) Both P and R d) R

33) A does $\frac{4}{5}$ of a piece of work in 20 days; He then calls in B and they finish the remaining work in 3 days. How long B alone will take to do whole work ?

a) 37 days b) $37\frac{1}{2}$ days

c) 23 days d) 40 days

34) A can do $\frac{1}{2}$ of a piece of work in 5 days, B can do $\frac{3}{5}$ of the same work in 9 days and C can do $\frac{2}{3}$ of that work in 8 days. In how many days can three of them together do the work ?

a) 5 days b) 3 days

c) 4 days d) $4\frac{1}{2}$ days

35) 4 men and 6 women complete a work in 8 days. 2 men and 9 women also complete in 8 days in which. The number of days in which 18 women complete the work is :

a) $5\frac{1}{3}$ days b) $4\frac{1}{3}$ days

c) $5\frac{2}{3}$ days d) $4\frac{2}{3}$ days

36) A can do in one day three times the work done by B in one day. They together finish $\frac{2}{5}$ of the work in 9 days. The number of days by which B can do the work alone is :

a) 120 days b) 90 days

c) 30 days d) 100 days

37) A can do a work in 15 days and B in 20 days. If they together work on it for 4 days, then the fraction of the work that is left is:

a) $\frac{7}{15}$ b) $\frac{8}{15}$

c) $\frac{1}{10}$ d) $\frac{1}{4}$

38) A, B and C are employed to do a piece of work for Rs. 5,290. A and B together are supposed to do $\frac{19}{23}$ of the work and B and C together $\frac{8}{23}$ of the work. Then A should be paid

a) Rs.3, 450 b) Rs.4, 250

c) Rs.2, 290 d) Rs.1, 950

39) A can do $\frac{1}{3}$ rd of a work in 5 days and B can do $\frac{2}{5}$ th of this work in 10 days. Both A and B, together can do the work in

a) $8\frac{4}{5}$ days b) $7\frac{3}{8}$ days

c) 10 days d) $9\frac{3}{8}$ days

40) A can complete $\frac{2}{3}$ of a work in 4 days and B can complete $\frac{3}{5}$ of the work in 6 days. In how many days can both A and B together complete the work ?

a) 2 b) 3

c) $2\frac{7}{8}$ d) $3\frac{3}{4}$

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