



MATHS

BOOKS - RD SHARMA MATHS (HINGLISH)

TIME AND WORK

Others

1. Amit can do a piece of work in 4 days and Sumit can do it in 6 days How long will they

take, if both Amit and Sumit work together ?



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2. Together Chotu and Nitu plough a field in 4 days. Nitu alone takes of 6 days to plough the same field. In how many days can Chotu alone plough the field ?



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3. Kami, Karya and Kirti can together weave a carpet in 4 days. Kami by herself can weave the same sized carpet in 12 days and Kirti can do it in 10 days. How long will karya take to do the work by herself?



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4. A and B can do piece of work in 12 days; B and C in 15 days; C and A in 20 days. In how

many days will they finish it together and separately ?



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5. A and Q together can do a piece of work in 10 days, Q and R can do the same work together in 12 days, while A and R can do together in 15 days. How long each will take to do it separately?



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6. A can do a piece of work in 25 days and B can finish it in 20 days. They work together for 5 days and then A goes away. In how many days will B finish the remaining work ?



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7. A and B can polish the floors of a building in 25 days. A alone can do 13 of this job in 15 days. In how many days can B alone polish the floors of the building?



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8. Suneeta can do $\frac{1}{15}$ th of a piece of work in a day. Abha can do the same work in $\frac{1}{10}$ days. In how many days can they do the same work, working together? How many days does suneeta takes?



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9. 5 men can complete a job in 8 days. How many days will it take if 12 men do the job?



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10. Seema weaves 25 baskets in 35 days. In how many days will she weave 110 baskets?



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11. If 15 boys earn Rs.900 in 5 days, how much will 20 boys earn in 7 days ?



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12. Spinning 3 hrs daily, Kanta can spin 1kg cotton balls in 12 days. Spinning 4 hrs daily, how much time (Days) will she take to spin 10kg cotton balls.



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13. Somari sweeps 600 m long railway platform in $2\frac{1}{2}$ hours. His wife Imarati sweeps $\frac{2}{3}$ rd of the same platform in $1\frac{1}{2}$ hours. Who sweeps more speedily?



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14. A cistern can be filled by one tap in 4 hours and by another in 3 hours. How long will it take to fill it if both taps are opened together?



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15. Pipe A can fill a cistern in $\frac{1}{6}$ hours and pipe B can fill it in $\frac{1}{8}$ hours. Both the pipes are opened and after two hours, pipe A is closed.

How much time will B take to fill the remaining part of the tank?



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16. One sixth of a cistern is filled by pipe at the rate of 6 lit/h, $\frac{4}{6}$ th of a cistern is filled by pipe at the rate of 8 lit/h and rest at the rate of 4 lit/h. Find the average rate of pipe at which tank will completely get filled.



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17. A pipe can fill a cistern in 6 hours. Due to a leak in the bottom it is filled in 7 hours. When the cistern is full, in how much time will it be emptied by the leak?



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18. A tank can be filled by two taps *A* and *B* in 12 hours and 16 hours respectively. The full tank can be emptied by a third tap in 8 hours. If all the taps be turned on at the same time,

in how much time will the empty tank be filled up completely?



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19. Rakesh can do piece of work in 20 days.
How much work can be do in 4 days?



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20. Rohan can paint $\frac{1}{3}$ of a painting in 6 days.
How many days will he take to complete the

painting?



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21. Anil can do a piece of work in 5 days and Ankur in 4 days. How long will they take to do the same work, if they work together?



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22. Mohan takes 9 hours to mow a large lawn. He and Sohan together can mow it in 4 hours.

How long will Sohan take to mow the lawn if he works alone?



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23. Sita can finish typing a 100 page document in 9 hours, Mita in 6 hours and Rita in 12 hours. How long will they take to type a 100 page document if they work together?



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24. A , B and C working together can do a piece of work in 8 hours. A alone can do it in 20 hours and B alone can do it in 24 hours. In how many hours will C alone do the same work?



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25. A and B can do a piece of work in 18 days. B and C in 24 days and A and C in 36 days. In what time can they do it, all works together





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26. A and B can do a piece of work in 12 days. B and C in 15 days. C and A in 20 days, A alone take to finish the job ?



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27. A,B,and C can reap a field in $15\frac{3}{4}$ days; B,C and D in 14 days; C,D and A in 18 days; D,A and B in 21 days. In what time can A,B,C and D together reap it?



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28. A and B can polish the floors of a building in 10 days. A alone can do $\left(\frac{1}{4}\right)^{th}$ of it in 12 days. In how many days can B alone polish the floor?



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29. A and B can finish a work in 20 days. A alone can do $\frac{1}{5}$ th of the work in 12 days. In

how many days can B alone do it?



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30. A and B do a piece of work in 20 days and B in 15 days. They work together for 2 days and then A goes away. In how many days will B finish the remaining work?



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31. A and B can do a work in 45 and 40 days respectively. They began the work together, but A left after some time and B finishes the remaining work in 23 days. After how many days did A leave?



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32. Aasheesh can paint his doll in 20 minutes and his sister Chinki can do so in 25 minutes. They paint the doll together for five minutes.

At this juncture they have a quarrel and Chinki withdraws from painting. In how many minutes will Aasheesh finish the painting of the remaining doll?



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33. A and B can do a piece of work in 6 days and 4 days respectively. A started the work, worked at it for 2 days and then was joined by B. Find the total time taken to complete the work.



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34. 6 men can complete the electric fitting in a building in 7 days. How many days will it take if 21 men do the job?



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35. If 36 men can do a piece of work in 25 days, in how many day will 15 men do it?



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36. Geetika weaves 20 baskets in 30 days .In how many days she will weave 120 baskets?



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37. Neha types 75 pages in 14 hours. How many pages will she type in 20 hours?



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38. If 12 boys earn Rs. 840 in 7 days, what will 15 boys earn in 6 days?



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39. If 25 men earn Rs 1000 in 10 days, how much will 15 men earn in 15 days?



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40. Working 8 hours a day, Ashu can copy a book in 18 days. How many hours a day should he work so as to finish the work in 12 days?



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41. If 9 girls can prepare 135 garlands in 3 hours, how many girls are needed to prepare 270 garlands in 1 hour.



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42. A cistern can be filled by one tap in 4 hours and by another in 3 hours. How long will it take to fill it if both taps are opened together?



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43. Two taps A and B can fill an overhead tank in 10 hours and 15 hours respectively. Both the taps are opened for 4 hours and then B is turned off. How much time will A take to fill the remaining tank?



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44. A cistern can be filled in 10 hours but due to a leak, it takes two more hours for the cistern to get filled. What is the time taken by the leak to empty a full cistern?



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45. A cistern has two inlets A and B which can fill it in 12 hours and 15 hours respectively. An outlet can empty the full cistern in 10 hours. If

all the three pipes are opened together in the empty cistern, how much time will they take to fill the cistern completely?



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46. A cistern can be filled by a inlet tap in 6 hours and emptied by an outlet pipe in 8 hours. How long will it take to fill the cistern if both the tap and the pipe are opened together?



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