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| |  |  | | --- | --- | | 1) | Two pipes A and B can fill a tank in 20 and 30 minutes respectively. If both the pipes are used together, then how long it will take to fill the tank ? | |  | |  |  | | --- | --- | | a) | 10 mins | | b) | 12 mins | | c) | 15 mins | | d) | 20 mins |   . | |

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| |  |  | | --- | --- | | 2) | A tap can fill a tank in 6 hours. After half the tank is filled then 3 more similar taps are opened. What will be total time taken to fill the tank completely. | |  | |  |  | | --- | --- | | a) | 2 hours 30 mins | | b) | 2 hours 45 mins | | c) | 3 hours 30 mins | | d) | 3 hours 45 mins |   . | |

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| |  |  | | --- | --- | | 3) | A leak in the bottom of a tank can empty the full tank in 6 hours. An inlet pipe fills water at the rate of 4 litres a minute. When the tank is full, the inlet is opened and due to the leak the tank is empty in 8 hours. The capacity of the tank (in litres) is | |  | |  |  | | --- | --- | | a) | 5780 litres | | b) | 5770 litres | | c) | 5760 litres | | d) | 5750 litres |   . | |

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| |  |  | | --- | --- | | 4) | An electric pump can fill a tank in 3 hours. Because of a leak in the tank, it took 3 hours 30 min to fill the tank. In what time the leak can drain out all the water of the tank and will make tank empty ? | |  | |  |  | | --- | --- | | a) | 10 hrs | | b) | 13 hrs | | c) | 17 hrs | | d) | 21 hrs |   . | |

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| |  |  | | --- | --- | | 5) | If one pipe A can fill a tank in 20 mins, then 5 pipes , each of 20 % efficiency of A can fill the tank in | |  | |  |  | | --- | --- | | a) | 80 min | | b) | 100 min | | c) | 20 min | | d) | 25 min |   . | |

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| |  |  | | --- | --- | | 6) | Two pipes A & B can fill a cistern in 12 min & 16 min respectively. Both the pipes are opened together for a certain time but due to some obstruction the flow of water was restricted to 7/8 of full flow in pipe A and 5/6 of full in pipe B. This obstuction is removed after some time and tank is now filled in 3min from that moment. How long was it before the full flow. | |  | |  |  | | --- | --- | | a) | 8 min | | b) | 3 min | | c) | 5.6 min | | d) | 4.5 min | | e) | None of these |   . | |

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| |  |  | | --- | --- | | 7) | A tank can be filled by a tap in 20 minutes and by another tap in 60 minutes. Both the taps are kept open for 10 minutes and then the first tap is shut off. After this, the tank will be completely filled in what time ? | |  | |  |  | | --- | --- | | a) | 10 mins | | b) | 15 mins | | c) | 20 mins | | d) | 25 mins |   . | |

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| |  |  | | --- | --- | | 8) | A cistern can be filled in 9 hours but due to a leak at its bottom it takes 10 hours. If the cistern is full, then the time that the leak will take to make it empty will be ? | |  | |  |  | | --- | --- | | a) | 20 hours | | b) | 19 hours | | c) | 90 hours | | d) | 80 hours |   . | |

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| |  |  | | --- | --- | | 9) | One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in | |  | |  |  | | --- | --- | | a) | 144 mins | | b) | 140 mins | | c) | 136 mins | | d) | 132 mins |   . | |

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| |  |  | | --- | --- | | 10) | 12 buckets of water fill a tank when the capacity of each tank is 13.5 litres. How many buckets will be needed to fill the same tank, if the capacity of each bucket is 9 litres? | |  | |  |  | | --- | --- | | a) | 15 buckets | | b) | 17 buckets | | c) | 18 buckets | | d) | 19 buckets |   . | |

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| |  |  | | --- | --- | | 11) | A, B and C can complete a piece of work in 24, 6 and 12 days respectively. Working together, they will complete the same work in : | |  | |  |  | | --- | --- | | a) | 1 / 24day | | b) | 7 / 24day | | c) | 3\*3 / 7 days | | d) | 4 days |   . | |

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| |  |  | | --- | --- | | 12) | A can lay railway track between two given stations in 16 days and B can do the same job in 12 days. with the help of C, they did job in 4 days only. Then, C alone can do the job in : | |  | |  |  | | --- | --- | | a) | 9 \* 1/ 5 days | | b) | 9\* 2/5 days | | c) | 9\* 3/5days | | d) | 10 days |   . | |

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| |  |  | | --- | --- | | 13) | A taking twice as much time as B or thrice as much time to finish a piece of work. Working together, they can finish the work in 2 days. B can work alone in : | |  | |  |  | | --- | --- | | a) | 4 days | | b) | 6 days | | c) | 8 days | | d) | 12 days |   . | |

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| |  |  | | --- | --- | | 14) | Ganga & Saraswathi working seperately can mow field in 8 and 12 hours respectively. If they work in stretches of one hour alternately. Ganga is beginning at 9 AM, when will the work be completed? | |  | |  |  | | --- | --- | | a) | 6 PM | | b) | 6.30 PM | | c) | 5 PM | | d) | 5.30 PM |   . | |

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| |  |  | | --- | --- | | 15) | A and B can do a work in 12 days, B and C in 15 days, C and A in 20 days. If A,B and C work together, they will complete the work in : | |  | |  |  | | --- | --- | | a) | 5 days | | b) | 7\*5/6days | | c) | 10 days | | d) | 15\*2/3 |   . | |

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| |  |  | | --- | --- | | 16) | A and B can do a job together in 7 days. A is 1\*3/4 times as efficient as B. The same job can be done by A alone in : | |  | |  |  | | --- | --- | | a) | 9\*1/3 days | | b) | 11 days | | c) | 12\*1/4days | | d) | 16\*1/3days |   . | |

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| |  |  | | --- | --- | | 17) | A can complete a piece of work in 18 days, B in 20 days and C in 30 days. B & C together start the work and forced to leave after 2 days. The time taken by A alone to complete the remaining work is | |  | |  |  | | --- | --- | | a) | 10 days | | b) | 12 days | | c) | 15 days | | d) | 16 days |   . | |

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| |  |  | | --- | --- | | 18) | A can complete a work in 10 days. B in 12 days and C in 15 days. all of them began the work together, but A had to leave the work after 2 days of the start and B , 3 days before the completion of the work. How long did the work last? | |  | |  |  | | --- | --- | | a) | 7 days | | b) | 8 days | | c) | 10 days | | d) | 12 days | | e) | None of these |   . | |

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| |  |  | | --- | --- | | 19) | A, B and C contract to do a work for Rs 6500. A can do the work in 10 days, B in 15 days, C in 20 days. If they work together to do the work what is the share of B? | |  | |  |  | | --- | --- | | a) | 2000 | | b) | 3000 | | c) | 1500 | | d) | 2500 | | e) | None of these |   . | |

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| |  |  | | --- | --- | | 20) | A and B contract to do a work together for Rs 300. A alone can do it in 8 days and B alone in 12 days. But with the help of C they finish it in 4 days. Find the share of C? | |  | |  |  | | --- | --- | | a) | Rs 30 | | b) | Rs 60 | | c) | Rs 100 | | d) | Rs 50 | | e) | None of these |   . | |