Practice Questions for Time & Work

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| Question | **A is thrice as good a workman as B and therefore is able to finish a job in 60 days less than B. Working together, they can do it in:** |
| Option A | 20 days |
| Option B | 22.5 days |
| Option C | 25 days |
| Option D | 30 days |
| Answer | Option B |
| Explanation | |  | | --- | | Ratio of times taken by A and B = 1 : 3. | |  | | If difference of time is 2 days, B takes 3 days. | |  | | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | If difference of time is 60 days, B takes |  | |  | | --- | | 3 | | 2 | | x 60 |  | = 90 days. |  | | |  | | So, A takes 30 days to do the work. | |  | | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | A's 1 day's work = | |  | | --- | | 1 | | 30 | | ; B's 1 day's work = | |  | | --- | | 1 | | 90 | |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (A + B)'s 1 day's work = |  | |  | | --- | | 1 | | 30 | | + | |  | | --- | | 1 | | 90 | |  | = | |  | | --- | | 4 | | 90 | | = | |  | | --- | | 2 | | 45 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | |  | |  | A and B together can do the work in | |  | | --- | | 45 | | 2 | | = 22 | |  | | --- | | 1 | | 2 | | days. | | |  | |

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| Question | **A and B together can complete a work in 12 days. A alone can complete it in 20 days. If B does the work only for half a day daily, then in how many days A and B together will complete the work?** |
| Option A | 10 days |
| Option B | 11 days |
| Option C | 15 days |
| Option D | 20 days |
| Answer | Option C |
| Explanation | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | B's 1 day's work = |  | |  | | --- | | 1 | | 12 | | - | |  | | --- | | 1 | | 20 | |  | = | |  | | --- | | 2 | | 60 | | = | |  | | --- | | 1 | | 30 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Now, (A + B)'s 1 day's work = |  | |  | | --- | | 1 | | 20 | | + | |  | | --- | | 1 | | 60 | |  | = | |  | | --- | | 4 | | 60 | | = | |  | | --- | | 1 | | 15 | | . | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | [ |  | B works for half day only | ] |  |  | |  | | |  | | So, A and B together will complete the work in 15 days. | |

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| Question | A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day? |
| Option A | 12 days |
| Option B | 15 days |
| Option C | 16 days |
| Option D | 8 days |
| Answer | Option B |
| Explanation | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | A's 2 day's work = | http://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 1 | x 2 | http://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = | 1 | . | | 20 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (A + B + C)'s 1 day's work = | http://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 1 | + | 1 | + | 1 | http://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = | 6 | = | 1 | . | | 20 | 30 | 60 | 60 | 10 |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Work done in 3 days = | http://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 1 | + | 1 | http://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = | 1 | . | | 10 | 10 | 5 |  |  |  |  | | --- | --- | --- | | Now, | 1 | work is done in 3 days. | | 5 |   http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Whole work will be done in (3 x 5) = 15 days. |

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| Question | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | If A can do | |  | | --- | | 1 | | 4 | | of a work in 3 days and B can do | |  | | --- | | 1 | | 6 | | of the same work in 4 days, how much |  |  | | | **will A get if both work together and are paid $ 180 in all?** | |
| Option A | $ 36 |
| Option B | $ 60 |
| Option C | $ 108 |
| Option D | $ 120 |
| Answer | Option D |
| Explanation | |  | | --- | | Whole wok is done by A in (3 x 4) = 12 days. | |  | | Whole work is done by B in (4 x 6) = 24 days. | |  | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | A’s wages : B’s wages = A’s 1 day’s work : B’s 1 day’s work = | |  | | --- | | 1 | | 12 | | : | |  | | --- | | 1 | | 24 | | = 2 : 1 |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | |  | |  | A's share = $ |  | |  | | --- | | 2 | | 3 | | x 180 |  | = $ 120. | | |

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| Question | **A can finish a work in 18 days and B can do the same work in 15 days. B worked for 10 days and left the job. In how many days. A lone can finish the remaining work?** |
| Option A | 5 |
| Option B | 5.5 |
| Option C | 6 |
| Option D | 8 |
| Answer | Option C |
| Explanation | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | B's 10 day's work = |  | |  | | --- | | 1 | | 15 | | x 10 |  | = | |  | | --- | | 2 | | 3 | | . Remaining work = |  | 1 - | |  | | --- | | 2 | | 3 | |  | = | |  | | --- | | 1 | | 3 | |  | | |  | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Now, | |  | | --- | | 1 | | 18 | | work is done by A in 1 day. |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | |  | |  | |  | | --- | | 1 | | 3 | | work is done by A in |  | 18 x | |  | | --- | | 1 | | 3 | |  | = 6 days. | | |

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| Question | **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?** |
| Option A |  |
| Option B |  |
| Option C |  |
| Option D |  |
| Answer | Option A |
| Explanation | |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | A's 1 day's work = | |  | | --- | | 1 | | 18 | | and B's 1 day's work = | |  | | --- | | 1 | | 9 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | |  | |  | (A + B)'s 1 day's work = |  | |  | | --- | | 1 | | 18 | | + | |  | | --- | | 1 | | 9 | |  | = | |  | | --- | | 1 | | 6 | |  |  | | |  | |

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| Question | **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?** |
| Option A | 18 days |
| Option B | 24 days |
| Option C | 30 days |
| Option D | 36 days |
| Answer | Option A |
| Explanation | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 2(A + B + C)’s 1 day’s work = |  | |  | | --- | | 1 | | 30 | | + | |  | | --- | | 1 | | 24 | | + | |  | | --- | | 1 | | 20 | |  | = | |  | | --- | | 15 | | 120 | | = | |  | | --- | | 1 | | 8 | |  |  | | |  | | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | |  | |  | (A + B + C)'s 1 day's work = | |  | | --- | | 1 | | 16 | |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Work done by A, B and C in 10 days = | |  | | --- | | 10 | | 16 | | = | |  | | --- | | 5 | | 8 | | . Remaining work = |  | 1 - | |  | | --- | | 5 | | 8 | |  | = | |  | | --- | | 3 | | 8 | |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | A's 1 day's work = |  | |  | | --- | | 1 | | 16 | | - | |  | | --- | | 1 | | 24 | |  | = | |  | | --- | | 1 | | 48 | |  |  |  | | |  | | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Now, | |  | | --- | | 1 | | 48 | | work is done by A in 1 day. |  |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | So, | |  | | --- | | 3 | | 8 | | Work will be done by A in |  | 48 x | |  | | --- | | 3 | | 8 | |  | = 18 days. | | |

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| Question | **A sum of money is sufficient to pay A’s wages for 21 days and B’s wages for 28 days. The same money is sufficient to pay the wages of both for:** |
| Option A | 12 days |
| Option B | 12.5 days |
| Option C | 14 days |
| Option D | 24 days |
| Answer | Option A |
| Explanation | |  | | --- | | Let total money be $ *x*. | |  | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | A's 1 day's wages = $ | |  | | --- | | *x* | | 21 | | , B's 1 day's wages = $ | |  | | --- | | *x* | | 28 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | |  | | (A + B)'s 1 day's wages = $ |  | |  | | --- | | *x* | | 21 | | + | |  | | --- | | *x* | | 28 | |  | = $ | |  | | --- | | *x* | | 12 | |  |  | | |  | | |  |  | | --- | --- | |  | Money is sufficient to pay the wages of both for 12 days. | | |

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| Question | **A can do a piece of work in 4 hours; B and C together can do it in 3 hours, while A and C together can do it in 2 hou$ How long will B alone take to do it?** |
| Option A | 8 hours |
| Option B | 10 hours |
| Option C | 12 hours |
| Option D | 24 hours |
| Answer | Option C |
| Explanation | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | A's 1 hour's work = | |  | | --- | | 1 | | 4 | | ; (B + C)'s 1 hour's work = | |  | | --- | | 1 | | 3 | | ; (A + C)'s 1 hour's work = | |  | | --- | | 1 | | 2 | |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (A + B + C)'s 1 hour's work = |  | |  | | --- | | 1 | | 4 | | + | |  | | --- | | 1 | | 3 | |  | = | |  | | --- | | 7 | | 12 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (A + B + C)'s 1 hour's work = |  | |  | | --- | | 1 | | 4 | | + | |  | | --- | | 1 | | 3 | |  | = | |  | | --- | | 7 | | 12 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | B's 1 hour's work = |  | |  | | --- | | 7 | | 12 | | - | |  | | --- | | 1 | | 2 | |  | = | |  | | --- | | 1 | | 12 | |  | | |  | | |  |  | | --- | --- | |  | B alone will take 12 hours to do the work. | | |

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| Question | **A man can do a piece of work in 5 days, but with the help of his son, he can do it in 3 days. In what time can the son do it alone?** |
| Option A | 0.5 days |
| Option B | 7 days |
| Option C | 7.5 days |
| Option D | 8 days |
| Answer | Option C |
| Explanation | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Son's 1 day's work = |  | |  | | --- | | 1 | | 3 | | - | |  | | --- | | 1 | | 5 | |  | = | |  | | --- | | 2 | | 15 | |  |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | |  | |  | The son alone can do the work in | |  | | --- | | 15 | | 2 | | =  7 | |  | | --- | | 1 | | 2 | | = days. |  |  | | |  | |

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| Question | **A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for $ 3200. With the help of C, they completed the work in 3 dyas. How much is to be paid to C?** |
| Option A | $ 375 |
| Option B | $ 400 |
| Option C | $ 600 |
| Option D | $ 800 |
| Answer | Option B |
| Explanation | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | C’s 1 day’s work = | |  | | --- | | 1 | | 3 | | - |  | |  | | --- | | 1 | | 6 | | + | |  | | --- | | 1 | | 8 | |  | = | |  | | --- | | 1 | | 3 | | - | |  | | --- | | 7 | | 24 | | = | |  | | --- | | 1 | | 24 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | A’s wages : B’s wages : C’s wages = | |  | | --- | | 1 | | 6 | | : | |  | | --- | | 1 | | 8 | | : | |  | | --- | | 1 | | 24 | | = 4 : 3 : 1. |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | |  | |  | C's share = $ |  | |  | | --- | | 1 | | 8 | | x 3200 |  | = $ 400 |  | | |

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| Question | **A works twice as fast as B. If B can complete a work in 12 days independently, the number of days in which A and B can together finish the work is:** |
| Option A | 4 days |
| Option B | 6 days |
| Option C | 8 days |
| Option D | 18 days |
| Answer | Option A |
| Explanation | |  | | --- | | Ratio of rates of working of A and B = 2 : 1. So, ratio of times taken = 1 : 2. | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | |  | |  | A's 1 day's work = | |  | | --- | | 1 | | 6 | | ; B's 1 day's work = | |  | | --- | | 1 | | 12 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (A + B)'s 1 day's work = |  | |  | | --- | | 1 | | 6 | | + | |  | | --- | | 1 | | 12 | |  | = | |  | | --- | | 3 | | 12 | | = | |  | | --- | | 1 | | 4 | |  |  | | |  | | So, A and B together can finish the work in 4 days. | |  | |

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| Question | **A can finish a work in 24 days, B in 9 days and C in 12 days. B and C start the work but are forced to leave after 3 days. The remaining work was done by A in:** |
| Option A | 5 days |
| Option B | 10 days |
| Option C | 6 days |
| Option D | 16 days |
| Answer | Option B |
| Explanation | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (B + C)’s 1 day’s work = |  | |  | | --- | | 1 | | 9 | | + | |  | | --- | | 1 | | 12 | |  | = | |  | | --- | | 7 | | 36 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Work done by B and C in 3 days = |  | |  | | --- | | 7 | | 36 | | x 3 |  | = | |  | | --- | | 7 | | 12 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Remaining work = |  | 1 - | |  | | --- | | 7 | | 12 | |  | = | |  | | --- | | 5 | | 12 | |  |  | | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Now, | |  | | --- | | 1 | | 24 | | Work is done by A in 1 day. |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | So, | |  | | --- | | 5 | | 12 | | work is done by A in |  | 24 x | |  | | --- | | 5 | | 12 | |  | = 10 days. | | |

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| Question | **A and B can together finish a work in 30 days. They worked together for 20 days and then B left. After another 20 days, A finished the remaining work. In how many days A alone can finish the job?** |
| Option A | 40 |
| Option B | 50 |
| Option C | 54 |
| Option D | 60 |
| Answer | Option D |
| Explanation | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (A + B)'s 20 days' work = |  | |  | | --- | | 1 | | 30 | | x 20 |  | = | |  | | --- | | 2 | | 3 | | . Remaining work = |  | 1 - | |  | | --- | | 2 | | 3 | |  | = | |  | | --- | | 1 | | 3 | |  |  |  | | |  | | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Now, | |  | | --- | | 1 | | 3 | | work is done by A in 20 days. |  |  |  | | |  | | Whole work will be done by A in (20 x 3) = 60 days. | |

|  |  |
| --- | --- |
| Question | **A and B can do a piece of work in 45 days and 40 days respectively. They began to do the work together but A leaves after some days and then B completed the remaining work in 23 days. The number of days after which A left the work was:** |
| Option A | 6 |
| Option B | 8 |
| Option C | 9 |
| Option D | 12 |
| Answer | Option C |
| Explanation | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (A + B)’s 1 day’s work = |  | |  | | --- | | 1 | | 45 | | + | |  | | --- | | 1 | | 40 | |  | = | |  | | --- | | 17 | | 360 | |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Work done by B in 23 days = |  | |  | | --- | | 1 | | 40 | | x 23 |  | = | |  | | --- | | 23 | | 40 | | . Remaining work = |  | 1 - | |  | | --- | | 23 | | 40 | |  | = | |  | | --- | | 17 | | 40 | |  | | |  | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Now, | |  | | --- | | 17 | | 360 | | Work was done by (A + B) in 1 day. |  |  | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | 17 | | 40 | | work was done by (A + B) in |  | 1 x | |  | | --- | | 360 | | 17 | | x | |  | | --- | | 17 | | 40 | |  | = 9 days. |  | | |  | | |  |  | | --- | --- | |  | A left after 9 days. | | |