ComputePrep

Time and work questions with answers

15 exam-shaped questions with full worked solutions.
For IBPS · SBI · SSC · Railway quant.

Free, share it forward. Every question in this set was generated and verified by the ComputePrep engine — the same one behind the free daily timed drill at **computeprep.com**.

The questions

Work them on paper first. Full solutions start after question 15 — the numbering matches.

QUESTION 1

In how many hours will the tank be full?

An inlet pipe fills a tank in 20 hours; an outlet pipe empties the full tank in 30 hours. Both pipes are opened together on an empty tank.

A. 69
B. 12
C. 60
D. 50
E. 65

QUESTION 2

In how many hours will the tank be full?

An inlet pipe fills a tank in 20 hours; an outlet pipe empties the full tank in 30 hours. Both pipes are opened together on an empty tank.

A. 12
B. 60
C. 67
D. 74
E. 70

QUESTION 3

In how many hours will the tank be full?

An inlet pipe fills a tank in 15 hours; an outlet pipe empties the full tank in 30 hours. Both pipes are opened together on an empty tank.

A. 21
B. 30
C. 15
D. 10
E. 22

QUESTION 4

Working together, in how many days will Deepak and Latha finish it?

Deepak is 2 times as efficient as Latha. Latha alone can finish the work in 12 days.

A. 3
B. 1
C. 24
D. 6
E. 4

QUESTION 5

Working together, in how many days will they finish it?

Karan can complete a piece of work in 30 days. Meera can complete the same work in 20 days.

A. 52
B. 50
C. 10
D. 12
E. 25

QUESTION 6

In how many days in all is the work completed?

Imran, Shalini and Anil can complete a piece of work in 12, 18 and 36 days respectively. All three start together, but Anil leaves after 1 day.

A. 7
B. 4
C. 6
D. 8
E. 2

QUESTION 7

Working together, in how many days will they finish it?

Imran can complete a piece of work in 18 days. Shalini can complete the same work in 9 days.

A. 27
B. 5
C. 6
D. 2
E. 4

QUESTION 8

Working together, in how many days will they finish it?

Karan can complete a piece of work in 18 days. Meera can complete the same work in 9 days.

A. 27
B. 18
C. 9
D. 14
E. 6

QUESTION 9

Working together, in how many days will they finish it?

Faiz can complete a piece of work in 15 days. Nandini can complete the same work in 30 days.

A. 2
B. 10
C. 45
D. 40
E. 6

QUESTION 10

In how many hours will the tank be full?

An inlet pipe fills a tank in 12 hours; an outlet pipe empties the full tank in 36 hours. Both pipes are opened together on an empty tank.

A. 38
B. 18
C. 16
D. 12
E. 9

QUESTION 11

In how many hours will the tank be full?

An inlet pipe fills a tank in 16 hours; an outlet pipe empties the full tank in 48 hours. Both pipes are opened together on an empty tank.

A. 54
B. 16
C. 21
D. 12
E. 24

QUESTION 12

In how many days in all is the work completed?

Faiz, Nandini and Karan can complete a piece of work in 12, 15 and 20 days respectively. All three start together, but Karan leaves after 2 days.

A. 5
B. 4
C. 2
D. 1
E. 6

QUESTION 13

Working together, in how many days will they finish it?

Imran can complete a piece of work in 30 days. Shalini can complete the same work in 20 days.

A. 50
B. 12
C. 25
D. 10
E. 52

QUESTION 14

Working together, in how many days will they finish it?

Karan can complete a piece of work in 30 days. Meera can complete the same work in 20 days.

A. 25
B. 30
C. 12
D. 52
E. 50

QUESTION 15

In how many hours will the tank be full?

An inlet pipe fills a tank in 9 hours; an outlet pipe empties the full tank in 18 hours. Both pipes are opened together on an empty tank.

A. 58

B. 6

C. 27

D. 18

E. 9

Answers and worked solutions

Each walkthrough is the engine's own elimination order, step for step — not a reconstruction written after the fact.

SOLUTION 1

Answer: **60**

1. Take the tank as 60 units, so the inlet adds 3/hour and the outlet removes 2/hour.
2. Net inflow = 3 − 2 = 1 units/hour — an outlet SUBTRACTS.
3. Time = 60 ÷ 1 = 60 hours.
4. Answer: 60 hours.

SOLUTION 2

Answer: **60**

1. Take the tank as 60 units, so the inlet adds 3/hour and the outlet removes 2/hour.
2. Net inflow = 3 − 2 = 1 units/hour — an outlet SUBTRACTS.
3. Time = 60 ÷ 1 = 60 hours.
4. Answer: 60 hours.

SOLUTION 3

Answer: **30**

1. Take the tank as 30 units, so the inlet adds 2/hour and the outlet removes 1/hour.
2. Net inflow = 2 − 1 = 1 units/hour — an outlet SUBTRACTS.
3. Time = 30 ÷ 1 = 30 hours.
4. Answer: 30 hours.

SOLUTION 4

Answer: **4**

1. 2× the efficiency means 2× the work per day, so Deepak needs 12 ÷ 2 = 6 days alone.
2. Per day: Latha does 1/12, Deepak does 1/6 — together 3/12 of the job.
3. So the job takes 12 ÷ 3 = 4 days.
4. Answer: 4 days.

SOLUTION 5

Answer: **12**

1. Take the total work as 60 units (the LCM of 30 and 20).
2. Karan does 2 units/day, Meera does 3 units/day — add the RATES, never the days.
3. Together they do 5 units/day, so the job takes 60 ÷ 5 = 12 days.
4. Answer: 12 days.

SOLUTION 6

Answer: **7**

1. Take the work as 36 units: Imran does 3, Shalini 2 and Anil 1 units a day.
2. First 1 day, all three: 1 × 6 = 6 units, leaving 30.
3. Imran and Shalini then do 5 a day: 30 ÷ 5 = 6 days.
4. Total = 1 + 6 = 7 days.
5. Answer: 7 days.

SOLUTION 7

Answer: **6**

1. Take the total work as 18 units (the LCM of 18 and 9).
2. Imran does 1 units/day, Shalini does 2 units/day — add the RATES, never the days.
3. Together they do 3 units/day, so the job takes 18 ÷ 3 = 6 days.
4. Answer: 6 days.

SOLUTION 8

Answer: **6**

1. Take the total work as 18 units (the LCM of 18 and 9).
2. Karan does 1 units/day, Meera does 2 units/day — add the RATES, never the days.
3. Together they do 3 units/day, so the job takes 18 ÷ 3 = 6 days.
4. Answer: 6 days.

SOLUTION 9

Answer: **10**

1. Take the total work as 30 units (the LCM of 15 and 30).
2. Faiz does 2 units/day, Nandini does 1 units/day — add the RATES, never the days.
3. Together they do 3 units/day, so the job takes 30 ÷ 3 = 10 days.
4. Answer: 10 days.

SOLUTION 10

Answer: **18**

1. Take the tank as 36 units, so the inlet adds 3/hour and the outlet removes 1/hour.
2. Net inflow = 3 − 1 = 2 units/hour — an outlet SUBTRACTS.
3. Time = 36 ÷ 2 = 18 hours.
4. Answer: 18 hours.

SOLUTION 11

Answer: **24**

1. Take the tank as 48 units, so the inlet adds 3/hour and the outlet removes 1/hour.
2. Net inflow = 3 − 1 = 2 units/hour — an outlet SUBTRACTS.
3. Time = 48 ÷ 2 = 24 hours.
4. Answer: 24 hours.

SOLUTION 12

Answer: **6**

1. Take the work as 60 units: Faiz does 5, Nandini 4 and Karan 3 units a day.
2. First 2 days, all three: 2 × 12 = 24 units, leaving 36.
3. Faiz and Nandini then do 9 a day: 36 ÷ 9 = 4 days.
4. Total = 2 + 4 = 6 days.
5. Answer: 6 days.

SOLUTION 13

Answer: **12**

1. Take the total work as 60 units (the LCM of 30 and 20).
2. Imran does 2 units/day, Shalini does 3 units/day — add the RATES, never the days.
3. Together they do 5 units/day, so the job takes 60 ÷ 5 = 12 days.
4. Answer: 12 days.

SOLUTION 14

Answer: **12**

1. Take the total work as 60 units (the LCM of 30 and 20).
2. Karan does 2 units/day, Meera does 3 units/day — add the RATES, never the days.
3. Together they do 5 units/day, so the job takes 60 ÷ 5 = 12 days.
4. Answer: 12 days.

SOLUTION 15

Answer: **18**

1. Take the tank as 18 units, so the inlet adds 2/hour and the outlet removes 1/hour.
2. Net inflow = 2 − 1 = 1 units/hour — an outlet SUBTRACTS.
3. Time = 18 ÷ 1 = 18 hours.
4. Answer: 18 hours.

One round a day beats one set a month.

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