ComputePrep

Speed distance and time 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

How far does it travel?

A train runs at a steady 72 km/h for 4 hours.

A. 278
B. 282
C. 288
D. 360
E. 216

QUESTION 2

How long does the journey take?

A train covers 200 km at a steady 40 km/h.

A. 2
B. 3
C. 4
D. 10
E. 5

QUESTION 3

How long does the journey take?

A train covers 210 km at a steady 30 km/h.

A. 6
B. 7
C. 4
D. 14
E. 3

QUESTION 4

How long does the journey take?

A train covers 216 km at a steady 72 km/h.

A. 6
B. 4
C. 8
D. 5
E. 3

QUESTION 5

What is its average speed for the whole journey?

A car covers a certain distance at 20 km/h and returns along the same route at 60 km/h.

A. 25
B. 40
C. 23
D. 30
E. 27

QUESTION 6

In how many seconds does the faster train pass the slower one completely?

Two trains, 240 m and 320 m long, run on parallel tracks in the same direction at 108 km/h and 36 km/h.

A. 12
B. 14
C. 28
D. 42
E. 58

QUESTION 7

How long does the journey take?

A train covers 280 km at a steady 40 km/h.

A. 9
B. 7
C. 8
D. 11
E. 14

QUESTION 8

How long does the journey take?

A train covers 360 km at a steady 45 km/h.

A. 16
B. 4
C. 5
D. 8
E. 7

QUESTION 9

How far does it travel?

A train runs at a steady 72 km/h for 2 hours.

A. 108
B. 144
C. 180
D. 216
E. 72

QUESTION 10

How long does the journey take?

A train covers 180 km at a steady 30 km/h.

A. 7
B. 5
C. 12
D. 8
E. 6

QUESTION 11

How far does it travel?

A train runs at a steady 30 km/h for 4 hours.

A. 120
B. 114
C. 90
D. 118
E. 150

QUESTION 12

What is its average speed for the whole journey?

A car covers a certain distance at 24 km/h and returns along the same route at 40 km/h.

A. 30
B. 27
C. 80
D. 16
E. 32

QUESTION 13

How far does it travel?

A train runs at a steady 45 km/h for 4 hours.

A. 181
B. 200
C. 195
D. 180
E. 225

QUESTION 14

How long does the journey take?

A train covers 150 km at a steady 30 km/h.

A. 5
B. 10
C. 6
D. 4
E. 3

QUESTION 15

How long does the journey take?

A train covers 225 km at a steady 45 km/h.

A. 7

B. 6

C. 8

D. 5

E. 10

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: **288**

1. Distance = speed × time = 72 × 4 = 288 km.
2. Answer: 288 km.

SOLUTION 2

Answer: **5**

1. Time = distance ÷ speed = 200 ÷ 40 = 5 hours.
2. Answer: 5 hours.

SOLUTION 3

Answer: **7**

1. Time = distance ÷ speed = 210 ÷ 30 = 7 hours.
2. Answer: 7 hours.

SOLUTION 4

Answer: **3**

1. Time = distance ÷ speed = 216 ÷ 72 = 3 hours.
2. Answer: 3 hours.

SOLUTION 5

Answer: **30**

1. Equal distances, different speeds — the average is HARMONIC, not the plain mean.
2. Average = 2 × 20 × 60 ÷ (20 + 60) = 2400 ÷ 80 = 30 km/h.
3. The tempting 40 km/h is wrong: more time is spent on the slower leg.
4. Answer: 30 km/h.

SOLUTION 6

Answer: **28**

1. Same direction: speeds SUBTRACT. Relative speed = 108 − 36 = 72 km/h = 72 × 5/18 = 20 m/s.
2. To clear each other completely they cover both lengths: 240 + 320 = 560 m.
3. Time = 560 ÷ 20 = 28 seconds.
4. Answer: 28 seconds.

SOLUTION 7

Answer: **7**

1. Time = distance ÷ speed = 280 ÷ 40 = 7 hours.
2. Answer: 7 hours.

SOLUTION 8

Answer: **8**

1. Time = distance ÷ speed = 360 ÷ 45 = 8 hours.
2. Answer: 8 hours.

SOLUTION 9

Answer: **144**

1. Distance = speed × time = 72 × 2 = 144 km.
2. Answer: 144 km.

SOLUTION 10

Answer: **6**

1. Time = distance ÷ speed = 180 ÷ 30 = 6 hours.
2. Answer: 6 hours.

SOLUTION 11

Answer: **120**

1. Distance = speed × time = 30 × 4 = 120 km.
2. Answer: 120 km.

SOLUTION 12

Answer: **30**

1. Equal distances, different speeds — the average is HARMONIC, not the plain mean.
2. Average = 2 × 24 × 40 ÷ (24 + 40) = 1920 ÷ 64 = 30 km/h.
3. The tempting 32 km/h is wrong: more time is spent on the slower leg.
4. Answer: 30 km/h.

SOLUTION 13

Answer: **180**

1. Distance = speed × time = 45 × 4 = 180 km.
2. Answer: 180 km.

SOLUTION 14

Answer: **5**

1. Time = distance ÷ speed = 150 ÷ 30 = 5 hours.
2. Answer: 5 hours.

SOLUTION 15

Answer: **5**

1. Time = distance ÷ speed = 225 ÷ 45 = 5 hours.
2. Answer: 5 hours.

One round a day beats one set a month.

A worked set teaches the shape; a clock teaches the speed. ComputePrep serves a free timed round every day, with a streak, a leaderboard and the full walkthrough after every round.

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