ComputePrep

Boats and streams 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 go?

A boat's speed in still water is 8 km/h and the stream flows at 3 km/h. It travels upstream for 2 hours.

A. 22
B. 10
C. 30
D. 25
E. 16

QUESTION 2

How far does it go?

A boat's speed in still water is 20 km/h and the stream flows at 3 km/h. It travels upstream for 3 hours.

A. 60
B. 72
C. 17
D. 69
E. 51

QUESTION 3

How far does it go?

A boat's speed in still water is 14 km/h and the stream flows at 4 km/h. It travels downstream for 4 hours.

A. 56
B. 76
C. 40
D. 72
E. 18

QUESTION 4

How far does it go?

A boat's speed in still water is 4 km/h and the stream flows at 1 km/h. It travels downstream for 5 hours.

A. 15
B. 32
C. 34
D. 26
E. 25

QUESTION 5

What is the speed of the boat in still water?

A boat travels downstream at 19 km/h and upstream at 9 km/h.

A. 14
B. 54
C. 28
D. 22
E. 5

QUESTION 6

What is the speed of the boat in still water?

A boat travels downstream at 40 km/h and upstream at 16 km/h.

A. 68
B. 28
C. 12
D. 24
E. 14

QUESTION 7

How far does it go?

A boat's speed in still water is 15 km/h and the stream flows at 6 km/h. It travels upstream for 4 hours.

A. 90
B. 60
C. 84
D. 36
E. 9

QUESTION 8

How far does it go?

A boat's speed in still water is 14 km/h and the stream flows at 3 km/h. It travels upstream for 2 hours.

A. 28
B. 37
C. 22
D. 52
E. 34

QUESTION 9

What is the speed of the boat in still water?

A boat travels downstream at 12 km/h and upstream at 8 km/h.

A. 20
B. 5
C. 2
D. 10
E. 4

QUESTION 10

What is the speed of the boat in still water?

A boat travels downstream at 19 km/h and upstream at 9 km/h.

A. 5
B. 15
C. 28
D. 34
E. 14

QUESTION 11

What is the speed of the boat in still water?

A boat travels downstream at 20 km/h and upstream at 16 km/h.

A. 28
B. 4
C. 2
D. 36
E. 18

QUESTION 12

What is the speed of the boat in still water?

A boat travels downstream at 12 km/h and upstream at 8 km/h.

A. 4
B. 40
C. 10
D. 5
E. 2

QUESTION 13

How far does it go?

A boat's speed in still water is 12 km/h and the stream flows at 5 km/h. It travels upstream for 4 hours.

A. 7
B. 25
C. 28
D. 21
E. 68

QUESTION 14

How far does it go?

A boat's speed in still water is 20 km/h and the stream flows at 1 km/h. It travels downstream for 4 hours.

A. 84
B. 34
C. 80
D. 76
E. 21

QUESTION 15

How far does it go?

A boat's speed in still water is 4 km/h and the stream flows at 1 km/h. It travels downstream for 5 hours.

A. 17

B. 5

C. 25

D. 15

E. 20

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: **10**

1. Upstream speed = 8 − 3 = 5 km/h.
2. Distance = 5 × 2 = 10 km — the stream must be applied before multiplying.
3. Answer: 10 km.

SOLUTION 2

Answer: **51**

1. Upstream speed = 20 − 3 = 17 km/h.
2. Distance = 17 × 3 = 51 km — the stream must be applied before multiplying.
3. Answer: 51 km.

SOLUTION 3

Answer: **72**

1. Downstream speed = 14 + 4 = 18 km/h.
2. Distance = 18 × 4 = 72 km — the stream must be applied before multiplying.
3. Answer: 72 km.

SOLUTION 4

Answer: **25**

1. Downstream speed = 4 + 1 = 5 km/h.
2. Distance = 5 × 5 = 25 km — the stream must be applied before multiplying.
3. Answer: 25 km.

SOLUTION 5

Answer: **14**

1. Downstream = boat + stream, upstream = boat − stream.
2. Adding: boat = (19 + 9) ÷ 2 = 14 km/h. (The stream is the HALF-DIFFERENCE, 5 km/h.)
3. Answer: 14 km/h.

SOLUTION 6

Answer: **28**

1. Downstream = boat + stream, upstream = boat − stream.
2. Adding: boat = (40 + 16) ÷ 2 = 28 km/h. (The stream is the HALF-DIFFERENCE, 12 km/h.)
3. Answer: 28 km/h.

SOLUTION 7

Answer: **36**

1. Upstream speed = 15 − 6 = 9 km/h.
2. Distance = 9 × 4 = 36 km — the stream must be applied before multiplying.
3. Answer: 36 km.

SOLUTION 8

Answer: **22**

1. Upstream speed = 14 − 3 = 11 km/h.
2. Distance = 11 × 2 = 22 km — the stream must be applied before multiplying.
3. Answer: 22 km.

SOLUTION 9

Answer: **10**

1. Downstream = boat + stream, upstream = boat − stream.
2. Adding: boat = (12 + 8) ÷ 2 = 10 km/h. (The stream is the HALF-DIFFERENCE, 2 km/h.)
3. Answer: 10 km/h.

SOLUTION 10

Answer: **14**

1. Downstream = boat + stream, upstream = boat − stream.
2. Adding: boat = (19 + 9) ÷ 2 = 14 km/h. (The stream is the HALF-DIFFERENCE, 5 km/h.)
3. Answer: 14 km/h.

SOLUTION 11

Answer: **18**

1. Downstream = boat + stream, upstream = boat − stream.
2. Adding: boat = (20 + 16) ÷ 2 = 18 km/h. (The stream is the HALF-DIFFERENCE, 2 km/h.)
3. Answer: 18 km/h.

SOLUTION 12

Answer: **10**

1. Downstream = boat + stream, upstream = boat − stream.
2. Adding: boat = (12 + 8) ÷ 2 = 10 km/h. (The stream is the HALF-DIFFERENCE, 2 km/h.)
3. Answer: 10 km/h.

SOLUTION 13

Answer: **28**

1. Upstream speed = 12 − 5 = 7 km/h.
2. Distance = 7 × 4 = 28 km — the stream must be applied before multiplying.
3. Answer: 28 km.

SOLUTION 14

Answer: **84**

1. Downstream speed = 20 + 1 = 21 km/h.
2. Distance = 21 × 4 = 84 km — the stream must be applied before multiplying.
3. Answer: 84 km.

SOLUTION 15

Answer: **25**

1. Downstream speed = 4 + 1 = 5 km/h.
2. Distance = 5 × 5 = 25 km — the stream must be applied before multiplying.
3. Answer: 25 km.

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