

Tanks & Pipes

Bands 1, 2, 3, 4, 5 · 10 questions · Free sample

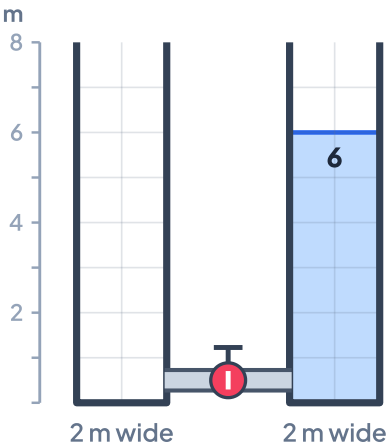
Name _____ Date _____ Score _____ /10

Each picture asks its own question. A tank takes the litres still needed divided by the net flow (taps minus drains) to fill, and a pipe that splits sends half to each branch. Tanks joined by an open valve settle at one level: all the water over all the width. Circle the letter of your answer.

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1 Band 1

The valve opens. How high does the water settle?

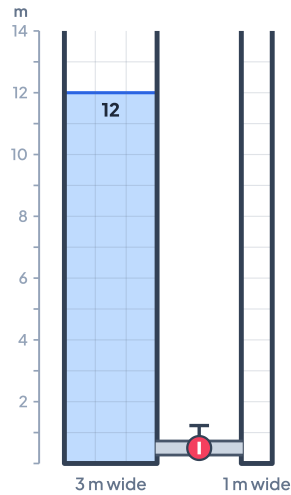


- ☐ A 1 m
- ☐ B 3 m
- ☐ C 5 m
- ☐ D 6 m

2

Band 1

The valve opens. How high does the water settle?



(A)

9 m

(B)

11 m

(C)

12 m

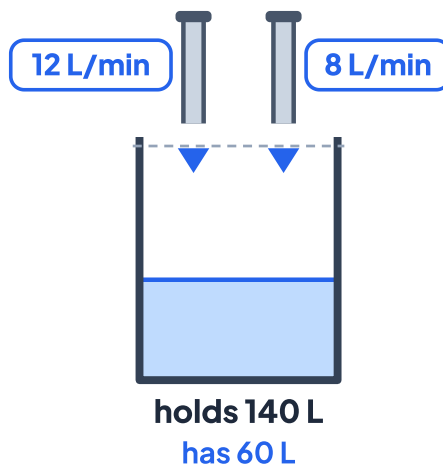
(D)

18 m

3

Band 2

How long until the tank is full?



(A)

2 min

(B)

3 min

(C)

4 min

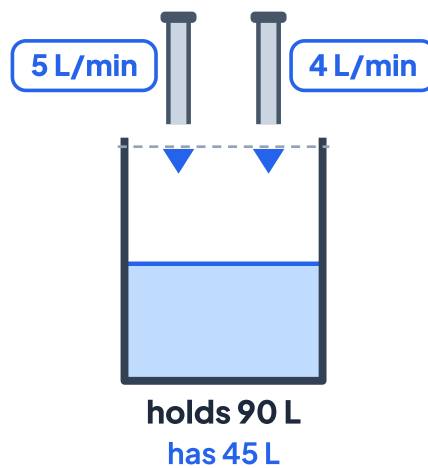
(D)

10 min

4

Band 2

How long until the tank is full?



(A) 2 min

(B) 3 min

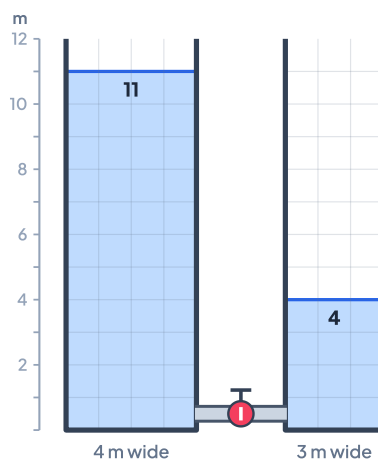
(C) 5 min

(D) 9 min

5

Band 3

The valve opens. How far does the water in the right tank rise?



(A) 2 m

(B) 3 m

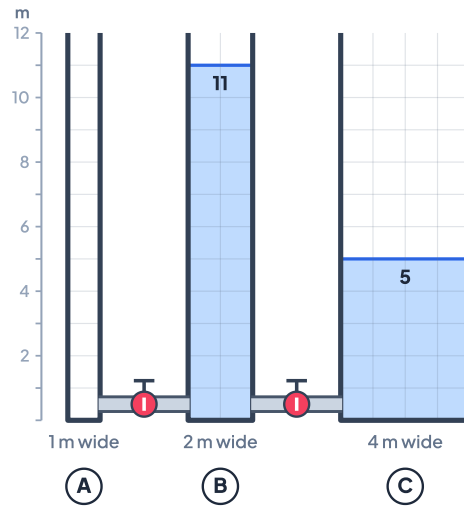
(C) 4 m

(D) 8 m

6

Band 3

Both valves open. How high does the water settle?



(A)

4 m

(B)

6 m

(C)

11 m

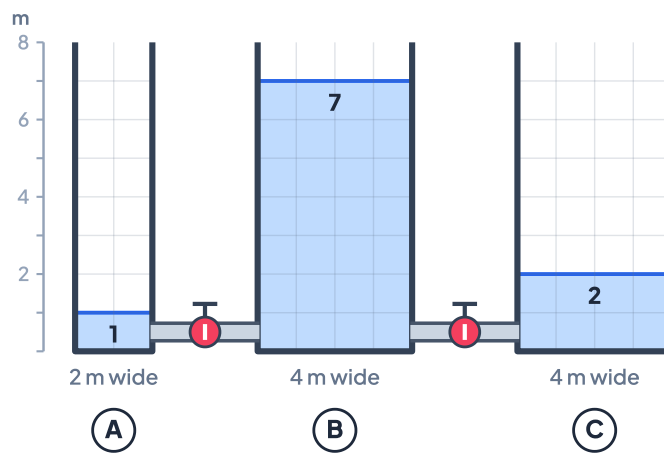
(D)

14 m

7

Band 4

The valve between A and B opens. How high does the water settle?



(A)

3 m

(B)

4 m

(C)

5 m

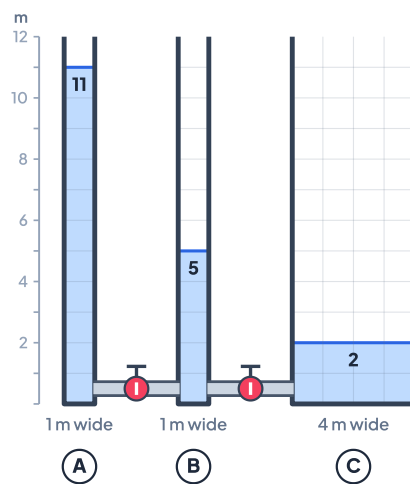
(D)

7 m

8

Band 4

The left valve opens, then the right one. Where does the water finally settle?



(A)

1 m

(B)

2 m

(C)

3 m

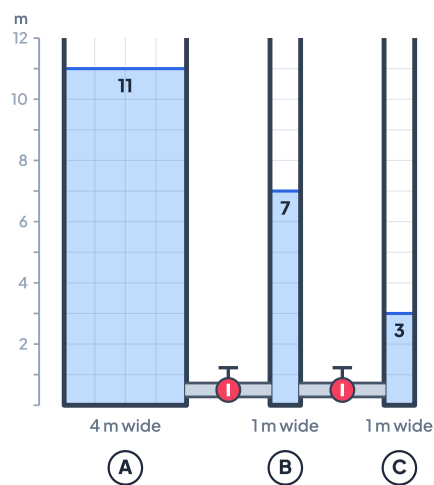
(D)

4 m

9

Band 5

The right valve opens, then the left one. Where does the water finally settle?



(A)

9 m

(B)

10 m

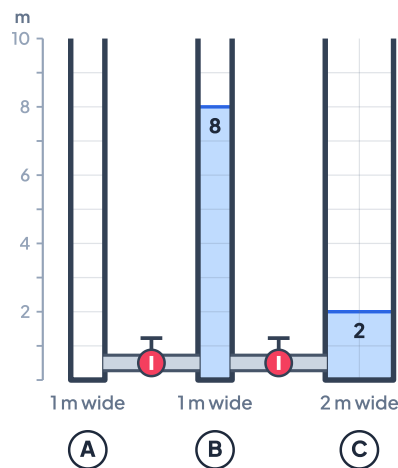
(C)

11 m

(D)

18 m

The right valve opens, then the left one. Where does the water finally settle?



(A)

2 m

(B)

3 m

(C)

4 m

(D)

6 m

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