



Pipe A can fill a tank in 7 hr and pipe B can empty the full tank in

1. 21 hr. If both the pipes are opened together,
in how much time will the tank become full?

(i) 11 hr (ii) $9\frac{1}{2}$ hr (iii) $11\frac{1}{2}$ hr (iv) $10\frac{1}{4}$ hr (v) $10\frac{1}{2}$ hr

Two pipes can fill a tank in 8 min and 14 min respectively. Both pipes are

2. opened together and after some time the first pipe is closed and the tank
becomes full in 7 min from the time when both pipes are opened. For how much time was first pipe open?

(i) 3 min (ii) 4 min (iii) 5 min (iv) 6 min (v) 1 min

Due to a leak at the bottom, pipe Y takes $3\frac{1}{2}$ hr to fill the tank.

3. The leak alone can empty the full tank in 21 hr.
In what time can pipe Y alone fill the tank when the leak is closed?

(i) 4 hr (ii) 5 hr (iii) 2 hr (iv) 1 hr (v) 3 hr

Pipe A can fill a tank in 4 hr and pipe B can empty the full tank in

4. 32 hr. If both the pipes are opened together,
in how much time will the tank become full?

(i) $4\frac{4}{5}$ hr (ii) $4\frac{4}{7}$ hr (iii) $4\frac{2}{7}$ hr (iv) $4\frac{6}{7}$ hr (v) $4\frac{4}{9}$ hr

Two pipes can fill a tank in 7 min and 13 min respectively. Both pipes are

5. opened together and after some time the first pipe is closed and the tank
becomes full in $7\frac{3}{7}$ min from the time when both pipes are opened. For how much time was first pipe open?

(i) 5 min (ii) 2 min (iii) 4 min (iv) 3 min (v) 1 min

Due to a leak at the bottom, pipe Y takes 6 hr to fill the tank.

6. The leak alone can empty the full tank in 6 hr.
In what time can pipe Y alone fill the tank when the leak is closed?

(i) 0 hr (ii) 4 hr (iii) 3 hr (iv) 5 hr (v) 2 hr

Pipe A can fill a tank in 4 hr and pipe B can empty the full tank in

7. 24 hr. If both the pipes are opened together,
in how much time will the tank become full?

(i) $5\frac{1}{3}$ hr (ii) $4\frac{4}{5}$ hr (iii) $5\frac{1}{5}$ hr (iv) $4\frac{2}{5}$ hr (v) $4\frac{4}{7}$ hr

- Two pipes can fill a tank in 12 min and 26 min respectively. Both pipes are opened together and after some time the first pipe is closed and the tank becomes full in $19\frac{1}{2}$ min from the time when both pipes are opened. For how much time was first pipe open?
8. (i) 2 min (ii) 1 min (iii) 6 min (iv) 3 min (v) 4 min

- Due to a leak at the bottom, pipe Y takes $9\frac{1}{7}$ hr to fill the tank.
9. The leak alone can empty the full tank in 64 hr .
In what time can pipe Y alone fill the tank when the leak is closed?
- (i) 9 hr (ii) 7 hr (iii) 10 hr (iv) 8 hr (v) 5 hr

- Pipe A can fill a tank in 5 hr and pipe B can empty the full tank in 40 hr . If both the pipes are opened together, in how much time will the tank become full?
10. (i) 6 hr (ii) $5\frac{5}{7}$ hr (iii) $5\frac{3}{7}$ hr (iv) $5\frac{5}{9}$ hr

Assignment Key

1) (v)

2) (ii)

3) (v)

4) (ii)

5) (iv)

6) (iii)

7) (ii)

8) (iv)

9) (iv)

10) (ii)

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