



Pipe A can fill a tank in 3 hr and pipe B can empty the full tank in

1. 9 hr . If both the pipes are opened together,
in how much time will the tank become full?

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

Two pipes can fill a tank in 15 min and 26 min respectively. Both pipes are
opened together and after some time the first pipe is closed and the tank

2. becomes full in $12\frac{2}{15}$ min from the time when both pipes are opened. For how much time was first pipe open?

(i) 5 min (ii) 9 min (iii) 8 min (iv) 10 min (v) 7 min

Due to a leak at the bottom, pipe Y takes $7\frac{7}{8}$ hr to fill the tank.

3. The leak alone can empty the full tank in 63 hr .
In what time can pipe Y alone fill the tank when the leak is closed?

(i) 8 hr (ii) 6 hr (iii) 10 hr (iv) 5 hr (v) 7 hr

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

4. 35 hr . If both the pipes are opened together,
in how much time will the tank become full?

(i) $9\frac{1}{2}$ hr (ii) $9\frac{1}{4}$ hr (iii) $8\frac{3}{4}$ hr (iv) $8\frac{1}{4}$ hr (v) $8\frac{1}{2}$ hr

Two pipes can fill a tank in 5 min and 18 min respectively. Both pipes are
opened together and after some time the first pipe is closed and the tank

5. becomes full in $14\frac{2}{5}$ min from the time when both pipes are opened. For how much time was first pipe open?

(i) 4 min (ii) 2 min (iii) -1 min (iv) 1 min (v) 0 min

Due to a leak at the bottom, pipe Y takes 3 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) 2 hr (iii) 4 hr (iv) 1 hr (v) 3 hr

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

7. 49 hr . If both the pipes are opened together,
in how much time will the tank become full?

(i) $8\frac{1}{2}$ hr (ii) $8\frac{1}{8}$ hr (iii) $8\frac{1}{4}$ hr (iv) $8\frac{1}{6}$ hr (v) $7\frac{5}{6}$ hr

Two pipes can fill a tank in 12 min and 26 min respectively. Both pipes are

8. opened together and after some time the first pipe is closed and the tank becomes full in 13 min from the time when both pipes are opened. For how much time was first pipe open?
- (i) 6 min (ii) 5 min (iii) 4 min (iv) 7 min (v) 8 min

Due to a leak at the bottom, pipe Y takes 8 hr to fill the tank.

9. The leak alone can empty the full tank in 56 hr.
In what time can pipe Y alone fill the tank when the leak is closed?
- (i) 6 hr (ii) 8 hr (iii) 5 hr (iv) 7 hr (v) 10 hr

Pipe A can fill a tank in 2 hr and pipe B can empty the full tank in

10. 8 hr. If both the pipes are opened together,
in how much time will the tank become full?
- (i) $3\frac{1}{3}$ hr (ii) $2\frac{2}{3}$ hr (iii) 2 hr (iv) 4 hr (v) $2\frac{2}{5}$ hr

Assignment Key

1) (iii)

2) (iii)

3) (v)

4) (iii)

5) (iv)

6) (ii)

7) (iv)

8) (i)

9) (iv)

10) (ii)