



Pipe A can fill a tank in 3 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)  $3\frac{1}{2}$  hr (ii)  $2\frac{1}{2}$  hr (iii)  $3\frac{1}{4}$  hr (iv) 4 hr (v)  $4\frac{1}{2}$  hr

Two pipes can fill a tank in 6 min and 12 min respectively. Both pipes are

2. opened together and after some time the first pipe is closed and the tank becomes full in 8 min from the time when both pipes are opened. For how much time was first pipe open?

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

Due to a leak at the bottom, pipe Y takes  $4\frac{4}{7}$  hr to fill the tank.

3. The leak alone can empty the full tank in 32 hr . In what time can pipe Y alone fill the tank when the leak is closed?

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

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

4. 6 hr . If both the pipes are opened together, in how much time will the tank become full?

(i) 5 hr (ii) 1 hr (iii) 2 hr (iv) 3 hr (v) 4 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  $10\frac{4}{5}$  min from the time when both pipes are opened. For how much time was first pipe open?

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

Due to a leak at the bottom, pipe Y takes 9 hr to fill the tank.

6. The leak alone can empty the full tank in 72 hr . In what time can pipe Y alone fill the tank when the leak is closed?

(i) 10 hr (ii) 9 hr (iii) 7 hr (iv) 6 hr (v) 8 hr

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

7. 12 hr . If both the pipes are opened together, in how much time will the tank become full?

(i) 5 hr (ii) 2 hr (iii) 7 hr (iv) 4 hr (v) 3 hr

Two pipes can fill a tank in 9 min and 22 min respectively. Both pipes are opened together and after some time the first pipe is closed and the tank

8. becomes full in  $9\frac{7}{9}$  min from the time when both pipes are opened. For how much time was first pipe open?

(i) 5 min (ii) 7 min (iii) 2 min (iv) 4 min (v) 6 min

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

9. 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) 3 hr (ii) 2 hr (iii) 4 hr (iv) 0 hr (v) 5 hr

Pipe A can fill a tank in 9 hr and pipe B can empty the full tank in

10. 45 hr . If both the pipes are opened together,  
in how much time will the tank become full?

- (i)  $11\frac{3}{4}$  hr (ii)  $11\frac{1}{6}$  hr (iii)  $11\frac{1}{2}$  hr (iv)  $11\frac{1}{4}$  hr (v)  $10\frac{3}{4}$  hr

## Assignment Key

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1) (i)	2) (v)	3) (i)	4) (iv)	5) (iv)	6) (v)
7) (iv)	8) (i)	9) (i)	10) (iv)		