

PIPE & CISTERN

1. A Pipe can fill a cistern in 25 hours. Find the part of tank filled in 5 hours.
(a) $1/25$ (b) $1/5$ (c) $1/10$ (d) $1/15$
2. Two pipes A and B can fill a tank in 30 minutes and 15 minutes respectively. If both the pipes are opened simultaneously, how much time will be taken to fill the tank?
(a) 10 minutes (b) 12 minutes (c) 8 minutes (d) 9 minutes
(e) none of these
3. Two pipes A and B can fill a tank in 12 minutes and 16 minutes respectively. If both the pipes are opened simultaneously, after how much time should B be closed so that the tank is full in 9 minutes?
(a) 8 min (b) 6 min (c) 4 min (d) 10 min (e) None of these
4. Two pipes A and B can fill a tank in 36 minutes and 48 minutes respectively. If both the pipes are opened simultaneously, after how much time should B be closed so that it gets full in 27 minutes?
(a) 10 min (b) 12 min (c) 14 min (d) 16 min (e) None Of these
5. Two pipes A and b can separately empty a cistern in 12 hours and 15 hours. Respectively. In what time will the cistern be emptied, if both the pipes are opened together?
9a) 5 hours 30 minutes (b) 7 hours (c) 6 hours 40 minutes (d) 7 hours 20 minutes (e) None Of these
6. A pipe can empty a cistern in 27 hours. Find the time in which $2/3$ part of the cistern will be emptied.

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- (a) 19 hours (b) 6 hours (c) 4 hours (d) 5 hours (e) None Of these
7. A pipe can empty a tank in 15 hrs and another pipe can empty it in 10hrs. If both the pipes are opened simultaneously, find the time in which a full tank is emptied.
- (a) 8 Hours (b) 6 hours (c) 4 hours (d) 5 Hours (e) None Of these
8. A tap can fill a cistern in 8 hours and another can fill a cistern in 8 hours and another can empty it in 16 hours. If both the taps are opened simultaneously, the time to fill the cistern will be
- (a) 6hrs (b) 3hrs (c) 16hrs (d) 4hrs (e) None of these
9. A water tank is $\frac{2}{5}$ the full. Pipe A can fill the tank in 10 minutes and the pipe B can empty it in 6 minutes. If both the pipes are open, how long will it take to empty or fill the tank completely?
- (a) 6 minutes to empty (b) 6 minutes to fill (c) 9 minutes to empty (d) 9 minutes to fill (e) None of these
10. A pump can fill a tank with water in 2 hours. Because of a leak, it took 2.5 hours to fill the tank. The leak can drain all the water of the tank in
- (a) 9hrs (b) 8hrs (c) 7hrs (d) 10hrs (e) none of these
11. A tap can fill a tank in 25 minutes and another can empty it, in 50 minutes. Find whether the tank will be filled up or emptied and in how many minutes?

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- (a) Tank is filled up in 50 minutes (b) Tank is emptied in 25 minutes
(c) Tank is filled up in 25 minutes (d) Tank is filled up in 20 minutes
(e) None of these
12. A cistern which could be filled in 9 hours takes one hour more to be filled owing to a leak in its bottom. If the cistern is full. In what will the leak empty it?
(a) 80 hours (b) 85 hours (c) 90 hours (d) 95 hours
(e) None of these
13. There is a leak in the bottom of a cistern. When the cistern is thoroughly repaired, it would be filled in 12 minutes. Right now it takes 18 minutes longer. If the cistern is full, how long would the leak to empty the cistern?
(a) 20 minutes (b) 24 minutes (c) 26 minutes
(d) 30 minutes (e) None of these
14. Two pipes A and B can fill a tank in 156 minutes and 20 minutes respectively. Both the pipes are opened together but after 4 minutes, pipe A is turned off. What is the real time required to fill the tank?
(a) 8 hrs (b) 10 hrs (c) 12 hrs (d) 7 hrs (e) None of these
15. If two pipes function simultaneously, the reservoir will be filled in 12 hours. One pipe fills the reservoir 10 hours faster than the other. How many hours does the faster pipe take to fill the reservoir?

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- (a) 35 hrs (b) 30hrs (c) 40hrs (d) 45hrs (e) None of these
16. One fill pipe A is 3 times faster than second fill pipe B and takes 32 minutes less than the fill pipe B; When will the cistern be full if both pipes are opened together .
- (a) 28 minutes (b) 24minutes (c) 30 minutes (d) Data inadequate (e) None of these
17. Pipe A can fill a tank in 5 hours, pipe B in 10 hours and pipe C in 30 hours. If all the pipes are open, then the tank will be filled in
- (a) 12hrs (b) 5hrs (c) 3hrs (d) 4hrs (e) None of these
18. Three pipes A, B and C can fill a cistern in 10, 12 and 15 hours, respectively, while working alone. If all the three pipes are opened together, the time taken to fill cistern will be
- (a) 4 hours (b) 6hrs (c) 7hrs (d) 8hrs (e) None of these
19. Two pipes A and B can fill a cistern in 12 minutes and 15 minutes respectively. There is also an outlet C. If all the three pipes are opened together, the tank is full in 10 minutes. How much time will be taken by C to empty the full tank?
- (a) 10min (b) 20min (c) 15 min (d) Data inadequate (e) None of these
20. Two pipes A and B can separately fill in 15 and 10 min respectively and a waste pipe C can carry off 7 liters per minute. If all the pipes are opened when the cistern is full, it is emptied in 2 hours. How many liters does the cistern hold ?

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- (a) 40 liters (b) 20 Liters (c) 25 liters (d) 30 liters
(e) None of these

Answer

1	B	5	C	9	A	13	A	17	C
2	A	6	D	10	D	14	E	18	A
3	C	7	B	11	A	15	E	19	D
4	B	8	C	12	C	16	E	20	A