Time & work-2 test

Q1. Pipes A and B can fill a tank in 5 and 6 hours respectively. Pipe C can empty it in 12 hours. If all the three pipes are opened together, then the tank will be filled in:

(a) 1(13/17) hours (b) 2(8/11) hours (c) 3(9/17) hours (d) 4(1/2) hours

Q2. 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) 2.5 hours (b) 5 hours (c) 10 hours (d) None of these

Q3. Two pipes A and B can fill a cistern in 37.5 minutes and 45 minutes respectively. Both pipes are opened. The cistern will be filled in just half an hour, if the B is turned off after:

(a) 5 min (b) 9 min (c) 10 min (d) 15 min

Q4. Two pipes can fill a tank in 20 and 24 minutes respectively and a waste pipe can empty 3 gallons per minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tank is:

(a) 60 gallons (b) 100 gallons (c) 120 gallons (d) 180 gallons

Q5. A tank is filled in 5 hours by three pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank?

(a) 20 hours (b) 25 hours (c) 35 hours (d) Cannot be determined (e) None of these

Q6. Two pipes A and B can fill a tank in 20 and 30 minutes respectively. If both the pipes are used together, then how long will it take to fill the tank?

(a) 12 min (b) 15 min (c) 25 min (d) 50 min

Q7. Two pipes A and B can fill a tank in 15 minutes and 20 minutes respectively. Both the pipes are opened together but after 4 minutes, pipe A is turned off. What is the total time required to fill the tank?

(a) 10 min. 20 sec. (b) 11 min. 45 sec. (c) 12 min. 30 sec. (d) 14 min. 40 sec.

Q8. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in:

(a) 88 min. (b) 108 min. (c) 144 mjn. (d) 192 min.

Q9. A tap can fill a tank in 6 hours. After half the tank is filled, three more similar taps are opened. What is the total time taken to fill the tank completely?

(a) 3 hrs 15 min (b) 3 hrs 45 min (c) 4 hrs (d) 4 hrs 15 min

Q10. Three pipes A, B and C can fill a tank in 6 hours. After working at it together for 2 hours, C is closed and A and B can fill the remaining part in 7 hours. The number of hours taken by C alone to fill the tank is:

(a) 10 (b) 12 (c) 14 (d) 16

Answer key

1	C	3	B	5	C	7	D	9	B
2	C	4	C	6	A	8	C	10	C