IEM KOLKATA

Time and Work

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Q1) Two pipes A and B can fill a tank in 24 minutes and 32 minutes respectively. If both the pipes are opened simultaneously, after how much time should B be closed so that the tank is full in 15 minutes?
(a) 12 min (b) 4 min (c) 6 min (d) 8 min

Q2) Two taps A & B fill a tank in 24 mins & 28 mins respectively. If both the taps are opened simultaneously, after how many minutes tap B should be closed so that the tank fills up in 18 mins.

Q3) A can do a work in 12 days and B can do the same work in 25 days. If they work on it together for 6 days, then what fraction of work is left?
(a) $\frac{21}{50}$ (b) $\frac{17}{50}$ (c) $\frac{13}{50}$ (d) $\frac{9}{50}$

Q4) A can complete a work in 11 days & B can complete the same work in 19 days. If they work together for 6 days on it, then what fraction of the work will remain?
(a) $\frac{26}{209}$ (b) $\frac{29}{209}$ (c) $\frac{32}{209}$ (d) $\frac{24}{209}$

Q5) 5 men can prepare 10 bags in 6 days working 6 hours a day. Then in how many days can 12 men prepare 16 bags, working 8 hours per day?
(a) 3 (b) 4 (c) 5 (d) 6

Q6) If 6 men and 8 boys can do a piece of work in 10 days, whilst 26 men and 48 boys can do the same in 2 days. Then, the time taken by 15 men and 20 boys to do the same type of work will be?
(a) 5 days (b) 4 days (c) 6 days (d) 7 days

Q7) 4 men and 6 women can complete a work in 8 days, while 3 men and 7 women can complete in 10 days. In how many days will 10 women complete it?
(a) 35 (b) 40 (c) 45 (d) 50

Q8) 4 men can complete a piece of work in 18 days, while 9 women can do it in 8 days. In how many days can 3 women & 6 men complete this work?
(a) 11 days (b) 13 days (c) 4 days (d) 8 days

Q9) 12 men and 10 women can complete a work in 14 days. Then in how many days 42 men & 35 women can complete the same work?

(a) 3 days (b) 4 days (c) 7 days (d) None

Q10) 5 men & 8 women can do a work in 12 days working together. While 3 men & 7 women together can complete the same work in 15 days. In how many will 11 woman complete the same work?

(a) 12 (b) 8 (c) 6 (c) 16