



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Arithmetic

Class: 7

Date: 27.03.21

Duration: 40 min

Worksheet Solutions 21

Full Marks: 15

TIME AND WORK

Choose the Correct options:

- 8 men can do a work in 28 days. In how many days can 14 men do the work?
Ans (a) 6 (b) **16** (c) 24 (d) 32
- A man does a piece of work in 3 days. Another man does it in 2 days. How much time will they take to do it together?
Ans (a) **1.2 days** (b) 1.5 days (c) 2.4 days (d) 5 days
- A and B can do a work in 10 days. A can do it alone in 15 days. In how much time can B do the work?
Ans (a) 20 days (b) 25 days (c) **30 days** (d) 35 days
- A, B and C can finish a work in 9 h, 18 h and 12 h respectively. In how much time will they finish if they work together?
Ans (a) 7 h (b) **4 h** (c) 5 h (d) 6 h
- A tap can fill a cistern in 3 h. Another tap can fill the cistern in 6 h. In how much time will they fill the cistern if both are opened together?
Ans (a) **2 h** (b) 2 h 30 min (c) 3 h 15 min (d) 6 h
- A tap can fill a tank in 4 hours. How much time will 2 such taps take to fill it?
Ans (a) 1 h (b) **2 h** (c) 3 h (d) 4 h
- 14 farmers can harvest the crop of a field in 5 days. How many farmers will harvest it in a week?
Ans (a) **10** (b) 5 (c) 7 (d) 15
- A, B and C can complete a piece of work in 12, 24, 36 days respectively. In how many day will they together do the work?
Ans (a) $5\frac{6}{11}$ (b) 4 (c) $6\frac{6}{11}$ (d) 6
- If 9 similar pumps all working together empty a tank in 20 min, how long would it take to empty the same tank with only 5 pumps working?
Ans (a) 30 min (b) **36 min** (c) 45 min (d) 40 min
- If it would take 4 people 15 h to clear the trees from some land, how many people will be needed to complete the job in 6 h?
Ans (a) 5 (b) **10** (c) 15 (d) 20
- A and B can together complete a work in 18 days. A and C can together do it in 12 days and B and C together do it in 9 days. Then B alone can do it in how many days?
Ans (a) 18 (b) **24** (c) 30 (d) 40
- A cistern can be filled by a tap in 4 h and emptied by an outlet in 6 h. How long will it take to fill the cistern if both are open?
Ans (a) 9 h (b) 10 h (c) 8 h (d) **12 h**
- A and B can do a work in 5 days. A can alone do it in 10 days? How much time does B take to do it alone?
Ans (a) 6 day (b) 7 day (c) 8 day (d) **10 day**
- 10 men can plough a field in 12 days. In how many days can 24 men plough the field?
Ans (a) 4 days (b) 12 days (c) **5 days** (d) 7 days
- A can do a piece of work in 6 days, B can do it in 12 days. How many days will A and B take working together?
Ans (a) 3 (b) **4** (c) 5 (d) 6