



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Arithmetic

Class: 7

Date: 21.04.20

Duration: 40 min

Worksheet solution 7

Full Marks: 15

TIME AND WORK CONTD.

Choose the Correct options:

1. Worker A takes 8 hours to do a job. Worker B takes 10 hours to do a job. How long should it take both A and B, working together to do same job.

- a) $\frac{4}{9}$
- b) $2\frac{4}{9}$
- c) $3\frac{4}{9}$
- d) $4\frac{4}{9}$

2. A and B can together complete a piece of work in 4 days. If A alone can complete the same work in 12 days, in how many days can B alone complete that work ?

- a) 4 days
- b) 5 days
- c) **6 days**
- d) 7 days

3. A does a work in 10 days and B does the same work in 15 days. In how many days they together will do the same work ?

- a) 5 days
- b) **6 days**
- c) 7 days
- d) 8 days

4. A can finish a work in 18 days and B can do same work in half the time taken by A. then working together, what part of same work they can finish in a day

- a) $\frac{1}{5}$
- b) $\frac{1}{6}$
- c) $\frac{1}{7}$
- d) $\frac{1}{8}$

5. A tyre has two punctures. The first puncture alone would have made the tyre flat in 9 minutes and the second alone would have done it in 6 minutes. If air leaks out at a constant rate, how long does it take both the punctures together to make it flat ?

- a) $3\frac{1}{5}min$
- b) $3\frac{2}{5}min$
- c) **$3\frac{3}{5}min$**

d) $3\frac{4}{5}min$

6. A is twice as good as workman as B and together they finish a piece of work in 18 days. In how many days will B alone finish the work.

- a) 27 days
- b) 54 days**
- c) 56 days
- d) 68 days

7. A man can do a piece of work in 5 days, but with the help of his son he can do it in 3 days. In what time can the son do it alone ?

- a) $7\frac{1}{2}$ days**
- b) $6\frac{1}{2}$ days
- c) $5\frac{1}{2}$ days
- d) $4\frac{1}{2}$ days

8. A can do a job in 16 days, B can do same job in 12 days. With the help of C they did the job in 4 days. C alone can do the same job in how many days ?

- a) $6\frac{1}{2}$ days
- b) $7\frac{1}{2}$ days
- c) $8\frac{3}{5}$ days
- d) $9\frac{3}{5}$ days**

9. To complete a work A and B takes 8 days, B and C takes 12 days, A,B and C takes 6 days. How much time A and C will take

- a) 24 days
- b) 16 days
- c) 12 days
- d) 8 days**

10. A does half as much work as B in three-fourth of the time. If together they take 18 days to complete the work, how much time shall B take to do it

- a) 40 days
- b) 35 days
- c) 30 days**
- d) 25 days

11. A is thrice as good a workman as B and takes 10 days less to do a piece of work than B takes. B alone can do the whole work in

- a) 15 days**
- b) 10 days
- c) 9 days
- d) 8 days

12. A can do a piece of work in 15 days and B alone can do it in 10 days. B works at it for 5 days and then leaves. A alone can finish the remaining work in

- a) 5 days
- b) 6 days
- c) 7.5 days**
- d) 8.5 days

13. A can do a piece of work in 4 hours . A and C together can do it in just 2 hours, while B and C together need 3 hours to finish the same work. In how many hours B can complete the work ?

- a) 10 hours
- b) 12 hours**
- c) 16 hours
- d) 18 hours

14. A completes 80% of a work in 20 days. Then B also joins and A and B together finish the remaining work in 3 days. How long does it need for B if he alone completes the work?

- a) $35\frac{1}{2}$
- b) $36\frac{1}{2}$
- c) $37\frac{1}{2}$**
- d) $38\frac{1}{2}$

15. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C

- a) Rs. 300
- b) Rs. 400**
- c) Rs. 500
- d) Rs. 600