ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Arithmetic **Class: 7** **Date: 29.03.21**

Duration: 40 min **Worksheet Solution 22** **Full Marks: 15**

TIME AND WORK

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. 4/9
b. 1 4/9
c. 2 4/9
d. 4 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 day**s
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)1/~~5~~

b)1/~~6~~

c)1/~~7~~

d)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 1/5 min
b. 3 2/5 min
c. 3 3/5 min
d. 3 4/5 min

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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 ½ days
b. 6 ½ days
c. 5 ½ days
d. 4 ½ 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 ½ days
b. 7 ½ days
c. 8 3/5 days
d. 9 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

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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 ½
b. 36 ½
c. 37 ½
d. 38 ½

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