



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Arithmetic**

**Class: 7**

**Date: 27. 04.20**

**Duration: 40 min**

**Worksheet Solutions 13**

**Full Marks: 15**

## UNITARY METHOD (PAMPHLET)

**Choose the Correct options:**

1. 20 men can reap a field in 20 days. When should 5 men leave the work, if the whole field is to be reaped in 24 days after they leave the work?

- (a) 2 days
- (b) 4 days
- (c) 3 days
- (d) 5 days

2. A rope makes 125 rounds of a cylinder with base radius 15 cm. How many times can it go round a cylinder with base radius 25 cm?

- (a) 100
- (b) 75
- (c) 80
- (d) 65

3. 6 men finish one-fourth work in 2 days. The number of additional men required for finishing the same work in 2 days is.

- (a) 18 men
- (b) 24 men
- (c) 28 men
- (d) 14 men

4. A certain number of men complete a piece of work in 45 days. If there were 5 men more, the work could be finished in 9 days less. How many men were originally there?

- (a) 30
- (b) 15
- (c) 25
- (d) 20

5. 10 workers can make 15 boxes in 6 days, how many boxes will 12 workers make in 3 days.

- (a) 10
- (b) 9
- (c) 6
- (d) 8

6. If 25 binders bind 25 books in 25 days. How many binders can bind 10 books in 10 days?

- (a) 25
- (b) 10
- (c) 15
- (d) 20

7. If 8 monkeys eat 8 bananas in 8 min. How many monkeys will eat 12 bananas in 12 min?

- (a) 6
- (b) 8
- (c) 12
- (d) 10

8. If 15 men build a wall 35 m high 14 days, in how many days will 30 men build a similar wall 20 m high?

- (a) 5 days
- (b) 4 days

(c) 7 days

(d) 6 days

9. If 36 persons consume 180 kg of rice in 12 days, in how many days will 42 persons consume 105 kg of rice?

**(a) 6 days**

(b) 8 days

(c) 4 days

(d) 9 days

10. If 8 men working 9 h a day can reap a field in 24 days, in how many days will 12 men reap the field, working 6 h a day?

**(a) 24 days**

(b) 20 days

(c) 28 days

(d) 16 days

11. If 10 men working 8 h a day can do a piece of work in 12 days, then how many men working 10 h a day can do the work in 16 days?

(a) 10

(b) 5

**(c) 6**

(d) 8

12. If 12 machines working 7 h a day can finish a work in 18 days, in how many days will 16 machines working 9 h a day finish twice the work?

**(a) 21 days**

(b) 18 days

(c) 24 days

(d) 16 days

13. If 5 men take 21 days of 8 h each, to do a piece of work. How many days of 6 h each would 14 women take, if 2 women do as much work as a man?

**(a) 20 days**

(b) 16 days

(c) 18 days

(d) 22 days

14. The work done by  $(x + 2)$  men in  $(x - 3)$  days and work done by 'x' men in  $(x - 2)$  days is equal. Find x.

**(a) 6**

(b) 4

(c) 8

(d) 9

15. A garrison of 400 men has provision for 30 days. However a reinforcement of 100 men arrived. The food will now last for.

(a) 27 days

(b) 21 days

**(c) 24 days**

(d) 28 days