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## First Term – Revision Exercise 4

## Inverse proportions

- 1. It takes 10 days to completely clean a garden by 4 people. How many days does it take for 8 people to do that?
- 2. If it takes 14 days to complete a task by 16 people, how many people are needed to complete the task in 2 days?
- 3. There is enough food for ten days for twenty road construction workers. If after 5 days another 5 workers join to the group, for how many days the remaining food will sufficient?
- 4. It takes 3 days to complete a task by 12 people. How many days does it take for 8 people to complete a task that is doubled?
- 5. It takes 6 days to dig a drain by 3 people. If one of them did not show up for work in the first three days, what is the total number of days it would take for all 3 to complete the work?
- 6. Five identical water pumps can fill the tank in 8 hours. Although the tank was filled with all 5 water pumps, 2 pumps became inoperative in exactly 2 hours. Find the extra time it took to fill the tank as the remaining 3 pumps filled the tank and the 2 water pumps did not work.
- 7. A car traveling at 60 kilometers per hour takes 2 hours to travel from one city to another. If the same car was traveling at 50 kilometers per hour, find the travel time.
- 8. A group of people who completed the construction of a roof in 18 days recruited 10 more people to work with similar workloads. If the work was completed in 6 days, how many people were in the first group?

## Data representation

(01) Information on paddy, rubber, tea and coconut cultivated in 1440 square meter are represented in the below pie chart.



(i) Which crop is cultivated in the largest area?

(ii) Which crop is cultivated in the least area?

(iii) Find the amount of cultivated land separately

(02) Information about the favorite sports of the students in a class are shown in the pie chart. If the number of students who like cricket is 40,

(i) How many students like football?

(ii) Find the number of students who like volleyball and netball separately.



(03) The following is the data obtained from 720 students of a school after inquiring about the subject of their choice.

Subject	No. of Students	
Mathematics	250	
Science	190	
Sinhala	110	
English	170	

- (i) Find the angles of the sector indicated by the students who like each subject separately.
- (ii) Indicate these information in a pie chart.

The Least common multiple of algebraic expressions

(01) Find the least common multiple in the following algebraic expressions.

- (i)  $8a^2,4ab$ (ii)  $x^2y,xy^2$ (iii) 6,3p,8q(iv)  $5ab,10a^2b,2ab^2$ (v)  $4m,8mn,12m^2$ (vi)  $8x,6xy,4x^2$ (vii)  $24,8z,10z^2$ (viii)  $Pq,pq^2$
- (02) Find the least common multiple of algebraic expressions with the following binomial expressions
  - (i) x-4,8-2x 9(p-1), 15(p+1),9(p-1) (ii)  $(y-1),(1-y)^2$ (iii) 3n+6,2n-4 (iv) 3(m-2),  $(m^2-4)$ (v)  $(a-b), (a^2-b^2)$ (vi)  $x(x-y), xy(x^2-y^2)$ (vii)  $2(p-1), 2p(p^2-1)$ (viii)  $b^2+2b+1$ , 2(b+1) (ix)
  - (x) 5(3-x), (x-2)(x-3)