



Provincial Department of Education – Sabaragamuwa – Week School

Week: 19

Subject: Mathematics

Grade -10

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15 – Equations

01. Simplify.

i. $3x - 36 = 1$

ii. $2(17 - x) = 10$

iii. $\frac{s-8}{3} = -4$

iv. $\frac{3}{a+1} = \frac{5}{2a+1}$

v. A boy had 25 coins with him. They are two-rupee coins and five-rupee coins. Sum of money of those coins is Rs.95. Find the number of each coin separately.

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- vi. Damith will be 5 minutes late if he walks to railway station from home at the speed of 4kmh^{-1} . He will go to the station 5 minutes early if the speed is 6kmh^{-1} . Find the distance from home to the railway station.

02. Simplify the following simultaneous equations.

i. $2x + y = 7$
 $2x - y = 1$

ii. $2r - 3s = 19$
 $3r - s = 11$

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- iii. Price of an orange and a king coconut is Rs.25. Three king coconuts can be bought for the price of two oranges. Find the price of two types of fruits separately.
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03. Simplify the given quadratic equations.

i. $x^2 + 9x + 20 = 0$

ii. $2p^2 - 15p = -14$

iii. $(n + 5)(n - 2) = 0$

iv. $3m^2 - 6m = 0$

v. $\frac{(t+2)}{3} = \frac{(t-4)}{t}$