

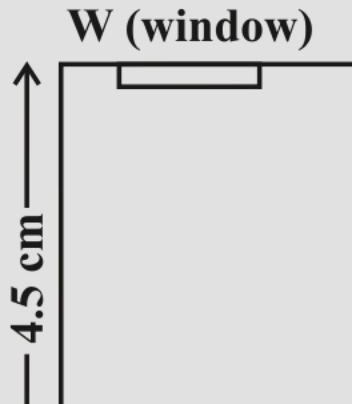
Example 2: An electric pole, 14 metres high, casts a shadow of 10 metres. Find the height of a tree that casts a shadow of 15 metres under similar conditions.

2. The following ingredients are required to make halwa for 5 persons:

Suji/Rawa = 250 g, Sugar = 300 g,

Ghee = 200 g, Water = 500 mL.

Using the concept of proportion, estimate the changes in the quantity of ingredients, to prepare halwa for your class.



4. A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will it fill in five hours?

Example 8: There are 100 students in a hostel. Food provision for them is for 20 days. How long will these provisions last, if 25 more students join the group?

Example 9: If 15 workers can build a wall in 48 hours, how many workers will be required to do the same work in 30 hours?

4. If a box of sweets is divided among 24 children, they will get 5 sweets each. How many would each get, if the number of the children is reduced by 4?

Example 17: Solve $5x - 2(2x - 7) = 2(3x - 1) + \frac{7}{2}$

$$8. \quad 15(y-4) - 2(y-9) + 5(y+6) = 0$$

$$5. \quad 2x - 1 = 14 - x$$