



Introduction to Algebra Ex 8.1 Q4

**Answer :**

Let the number of rooms on the ground floor be  $y$ .

It is given that the number of rooms on the first floor is  $x$ ; therefore, we have:

$$\begin{aligned}y &= 2 \times x - 12 \\ &= 2x - 12\end{aligned}$$

Thus, the number of rooms on the ground floor is  $2x - 12$ .

Introduction to Algebra Ex 8.1 Q5

**Answer :**

It is given that Binny spends Rs.  $a$  in one day.

$$\therefore \text{Money spent by him in one week} = 7 \times a = 7a$$

It is further given that he saves Rs.  $b$  in one week; therefore we have:

$$\begin{aligned}\text{Total income in one week} &= \text{Total expenditure in one week} + \text{Total saving in one week} \\ &= 7a + b\end{aligned}$$

$$\therefore \text{Binny's total income in 2 weeks} = 2 \times (7a + b) = \text{Rs. } (14a + 2b)$$

Introduction to Algebra Ex 8.1 Q6

**Answer :**

$$\text{Marks obtained in English} = 80$$

$$\text{Marks obtained in Hindi} = x$$

$$\text{Total marks obtained} = 80 + x$$

\*\*\*\*\* END \*\*\*\*\*