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Class-06

Sub-.Maths

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1. Answer the following:

(a) Take Sarita's present age to be  $y$  years

(i) What will be her age 5 years from now?

(ii) What was her age 3 years back?

(iii) Sarita's grandfather is 6 times her age. What is the age of her grandfather?

(iv) Grandmother is two year younger than grandfather. What is grandmother's age?

(v) Sarita's father's age is 5 years more than 3 times Sarita's age. What is her father's age?

(b) The length of a rectangular hall is 4 meters less than three times the breadth of the hall. What is the length, if the breadth is  $b$  meters?

(c) A rectangular box has height  $h$  cm. Its length is 5 times the height and breadth is 10 cm less than the length. Express the length and the breadth of the box in terms of the height.

(d) Meena, Beena and Reena are climbing the steps to the hill top. Meena is at step  $s$ , Beena is 8 steps ahead and Leena 7 steps behind. Where are Beena and Meena? The total number of steps to the hill top is 10 less than 4 times what Meena has reached. Express the total number of steps using  $s$ .

(e) A bus travels at  $v$  km per hour. It is going from Daspur to Beespur. After the bus has travelled 5 hours, Beespur is still 20 km away. What is the distance from Daspur to Beespur? Express it using  $v$ .



**Solutions:**

(a) (i) Sarita's age after 5 years from now = Sarita's present age + 5  
=  $(y + 5)$  years

(ii) Sarita's age 3 years back = Sarita's present age - 3  
=  $(y - 3)$  years

(iii) Grandfather's age =  $6 \times$  Sarita's present age  
=  $6y$  years

(iv) Grandmother's age = grandfather's present age - 2  
=  $(6y - 2)$  years

(v) Father's age =  $5 + 3 \times$  Sarita's present age  
=  $(5 + 3y)$  years

(b) Length =  $3 \times$  Breadth - 4  
 $l = (3b - 4)$  metres

(c) Length =  $5 \times$  Breadth  
 $l = 5h$  cm

Breadth =  $5 \times$  length - 10

$$b = (5h - 10) \text{ cm}$$

$$(d) \text{ The step at which Beena is} = (\text{step at which Meena is}) + 8$$

$$= (s + 8)$$

$$\text{The step at which Leena is} = (\text{step at which Meena is}) - 7$$

$$= (s - 7)$$

$$\text{Total steps} = 4 \times (\text{step at which Meena is}) - 10$$

$$= (4s - 10)$$

$$(e) \text{ Speed} = v \text{ km / hr}$$

$$\text{Distance travelled in 5 hours} = 5 \times v$$

$$= 5v \text{ km}$$

$$\text{Total distance travelled between Daspur and Beespur} = (5v + 20) \text{ km}$$