

Evaluate 2 of 6 by $4+5=$
 $2R$. Then the value of $R=?$

$$\frac{2(6)}{4+5} = 2R \quad \frac{12}{9} = 2R$$

$$\frac{4}{3} = 2R \quad \frac{4}{3 \times 2} = R$$

$$\frac{4}{6} = R$$

$$R = \frac{2}{3}$$

The length of a rectangular hall is 5m more than its breadth. The area of the hall is 750 sq.m. Length of hall is?

$$\text{Area} = L \times B$$

$$750 = x(x+5)$$

$$750 = x^2 + 5x$$

$$x^2 + 5x - 750 = 0 \rightarrow (1)$$

$$(x+30)(x-25) = 0$$

$$x = 25 \quad x = -30$$

as breadth can't be negative

$$\text{so } \boxed{x = 25}$$

12 people at a party shake hands once with everyone else in room. How many handshakes took place?

→ 12 people handshaking with 11 others.

$$\text{So } 12 \times 11 = 132$$

twice (once for each)

$$\Rightarrow 132 / 2$$

$$= 66$$

