Solving (Basic) Equations

Remember we can solve equations by *cover up* (using a finger).

$x + 5 = 9$
$x = 4$

$p - 3 = 12$
$p = 15$

$y - 7 = 1$
$y = 8$

We can also use our *cover up* method for these type of equations :–
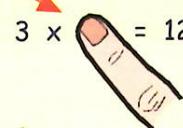
$3x$ means 3 **times** x.

$3x = 12$
$x = 4$

$2k = 10$
$k = 5$

$7y = 56$
$y = 8$

There are various other ways of solving equations :–

- the "cover up" method
- the method of "equal addition"
- the "change side <—> change sign" rule.

$3 \times = 12$

You may come across these alternative methods later.

Exercise 2

1.   Copy and solve each equation by finding the value of the letter :–

a $x + 3 = 7$	b $x + 9 = 12$	c $x + 1 = 17$
d $y + 11 = 21$	e $y - 3 = 6$	f $y - 1 = 21$
g $p - 10 = 0$	h $p - 50 = 10$	i $p + 6 = 6$
j $k - 18 = 0$	k $h + 15 = 30$	l $g - 40 = 40$
m $5 - q = 1$	n $8 + w = 11$	o $9 - z = 0$
p $15 + x = 50$	q $17 - r = 14$	r $55 + t = 55$
s $71 + f = 111$	t $145 - x = 77$	u $515 + y = 761.$

2.   Copy each equation and find the value of the letter :–

a $3x = 6$	b $4m = 20$	c $5p = 30$
d $7q = 28$	e $6t = 36$	f $6a = 60$
g $3b = 36$	h $8d = 48$	i $2x = 24$
j $2p = 22$	k $4p = 56$	l $6m = 54$
m $10x = 110$	n $8t = 64$	o $14p = 42$
p $2b = 5$	q $2c = 9$	r $2n = 19$
s $4x = 10$	t $8x = 12$	u $10x = 55$
v $4x = 21$	w $10x = 34$	x $5x = 24.$