Equations with one unknown
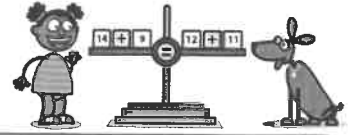
Find the value of the letter in the following equations:

$15 + 54 = a$	$a =$	$b + 17 = 40$	$b =$
$65 - a = 35$	$a =$		

$15 + 54 = a$ $a =$ $b + 17 = 40$ $b =$ $65 - a = 35$ $a =$

$b - 30 = 78$ $b =$ $a = 12 + 43$ $a =$ $15b + 10 = 610$ $b =$

$4b = 88$ $b =$ $2a = 96$ $a =$ $15c = 300$ $c =$

$a - 27 = 0$ $a =$ $27 + c = 59$ $c =$ $4a = 60$ $a =$

$90 = a \div 2$ $a =$ $10b \div 5 = 10$ $b =$ $20c \div 2 = 50$ $c =$

$25 = 5a$ $a =$ $42 + c = 80 - 25$ $c =$ $2b - 80 = 20$ $b =$

Use algebra to solve these number problems:

1. Sam is 4 years younger than Sienna. Write an equation that shows how old Sam is when Sienna is 15 years old. Use the letter a to represent Sam's age.

2. There are 24 pupils in Oscar's class. 11 pupils are girls. Write an equation that shows how many boys there are in his class. Use the letter b to represent the number of boys.

3. Jenny saves £2 a month. Write an equation that shows how long it would take her to save £16? Use the letter m to represent the number of months.

4. Raj's mother was 25 years old when he was born. Write an equation that shows how old Raj was when she was 32? Use the letter y to represent Raj's age.

Now work out how old Raj was when his mother was:
a) 35   b) 39   c) 42