



**Mathematics Homework**  
Block 4  
**Equations Level 3**



SHOW ALL WORKING!

- Find the value of  $x$  by solving these equations:-  
Set down your working carefully, showing ALL the steps
  - $x - 7 = 1$
  - $3x + 8 = 17$
  - $2x - 6 = 14$
  - $7x - 2 = 17$
  - $\frac{1}{2}x - 7 = 1$
- Copy the following and place a  $<$  sign or a  $>$  sign between the numbers to make true statements:-
  - $6 \dots\dots 9$
  - $4 \dots\dots -2$
  - $-9 \dots\dots -8$
  - $0 \dots\dots -5$
- In this question you can choose  $w$  only from the numbers ...  $\{-3, -2, -1, 0, 1, 2\}$   
Write down the solutions for :-
  - $w > -3$
  - $w < -2$
  - $w < 1$
  - $w \geq -\frac{1}{2}$
- Solve the following inequations, leaving your answer in the form  $x > 5$  for example.
  - $x + 9 > 11$
  - $x - 5 < 6$
  - $2x + 7 \geq 13$