Using number strategies to solve equations						AC
We are using number strategies to solve linear equations with integers.						EA
Exercise 1 – Finding <i>x</i> .						AA
What to do:						AM
	 Rewrite the equation in a way that will help you find the x that makes the equation true. 					
 Clearly explain the strategy you use to solve this equation. Give the value of x that makes the equation true. 						
e.g.	Equation: $19 = x + 4$ Rewrite: $x = 19 - 4$ Strategy: $47 - 19 =$ Solution: $x = -28$		47 = -28			
1)	-45 + x = 76	(2)	x + 17 = -15	(3)	93 = x + 121	
4)	72 - x = 99	(5)	63 = 46 - x	(6)	x - 29 = -51	
7)	39 = 72 + x	(8)	x - 16 = -82	(9)	72 - x = -15	
10)	22 = 44 + x	(11)	88 = 71 - x	(12)	-36 = x - 47	
13)	-131 + x = 267	(14)	x - 140 = -470	(15)	195 - x = 295	
16)	2300 + x = -4500	(17)	x - 9876 = -1234	(18)	80808 - x = -80	808
19)	5555 + x = -1111	(20)	x - 932 = -840	(21)	100000 - x = 12	3456
22)	-354 + x = -127	(23)	x - 3750 = -4250	(24)	99995 - x = 100	000

Exercise 2 – Writing word problems

Select 10 of these equations and write a word problem that the equation could be used to solve.

Answers: