26 Equations

Find the value of the letter in each of the following equations

Exercise 1

1) $x + 4 = 6$	2) $x + 7 = 17$	3) $7 + y = 19$
4) $x - 2 = 4$	5) $y - 7 = 11$	6) $a-9=18$
7) $6 - y = 4$	8) $12 - x = 2$	9) $19 - x = 5$
10) 12 <i>a</i> = 36	11) $6x = 42$	12) 8 <i>y</i> = 36
13) 7 <i>b</i> = -35	14) $4y = -24$	15) $4b = -10$
16) $4a + 2 = 10$	17) $9a + 6 = 33$	18) $12x + 6 = 30$
19) $7x - 3 = 18$	20) $12x - 7 = 17$	21) $6x - 7 = 35$
22) $4y + 4 = 14$	23) $3b + 2 = -4$	24) $6y - 5 = -35$

Exercise 2

1) $x + 3$	= 2x 2)	6x - 5 = 5x	3)	7x - 6 = 6x
4) 3 <i>x</i> +	5 = 4x 5)	2x + 3 = 3x	6)	4x + 2 = 5x
7) 4 <i>x</i> –	12 = 2x 8)	5x - 6 = 2x	9)	4x - 7 = 2x
10) 3 <i>x</i> +	6 = 5x 11)	8x + 5 = 10x	12)	7x + 7 = 9x
13) 4 <i>x</i> +	2 = 2x 14)	4x + 4 = -12	15)	3x - 2 = x + 6
16) $x + 7$	=2x-2 17)	6x - 12 = 3x + 12	18)	5x - 2 = 2x + 4
19) 4 <i>x</i> +	9 = 2x + 15 20)	3x + 7 = 2x - 1	21)	4x + 3 = 2x - 3

Exercise 3

		2)	2(
1)	2(x+1) = 8	2)	3(x-1)=9	3)	5(x+2) = 15
4)	4(x+2) = 36	5)	7(x-2) = 21	6)	2(2x+1) = 26
7)	3(2x-1) = 27	8)	2(5x+4) = 28	9)	3(3x-7) = 15
10)	2(x+1) = 3x	11)	4(x-2) = 3x	12)	5(x+6) = 15x
13)	2(2x+3) = 10x	14)	3(2x-5)=3x	15)	6(2x+7) = 33x
16)	3(2x+1) = 8x-5	17)	6(x-6) = 4x + 4	18)	4(3x+2) = 11x + 18
19)	4(x+3) = 5(3x-2)	20)	2(x+3) = 4(2x-9)	21)	3(2x-1) = 5(3x-15)
22)	2(x+1) + x = 11	23)	3(2x-2) + x = 29	24)	5(3x+2) - 4x = 87

Answers on next page

26. Equations Exercise 1

Exercise 2

1)x = 3	2)x = 5	(3) x = 6	(4) x = 5
5)x = 3	6) $x = 2$	(7)x = 6	8) $x = 2$
(9)x = 3.5	10)x	= 3 11	x = 2.5
(12)x = 3.3	5 13)x	= -1 14)x = -4
(15)x = 4	(16)x = 9	(17)x = 8	(18) x = 2
(19)x = 3	(20)x =	= -8 21	x = -3

Exercise 3

1)x = 3	(2)x = 4	3)x = 1	(4)x = 7
5)x = 5	(6) x = 6	(7)x = 5	(8) x = 2
9)x = 4	10)x = 2	(11)x = 8	(12)x = 3
(13)x = 1	(14)x = 5	(15)x = 2	(16)x = 4
(17)x = 20	(18) x = 10	(19)x = 2	20)x = 7
(21)x = 8	(22)x = 3	(23)x = 5	(24)x = 7