

Answers to booklet 2

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page 1: Exercise 1

a $7 + n$	b $4 - n$	c $9/n$	d $n - 3$	e $6n + 7$	f $2n + 5$
g $3n$	h $4 - n$	i $n/9$	j $5n + 8$	k $2 + 3n$	l $n+1$

page 2: 1 a monomial b binomial c monomial d trinomial e binomial

2a $4x^2 + 8x$	b $4x + 4y$	c $7x + 4y$	d $x^2 + 8x + y^2$	e $7x^2y - 4x^2 - 5xy^2$	f $12x^2 - 12y^2$
g 0	h $4x^2yz + 4xyz$	i $-4x^2 - 2x$	j $2x - 4y$	k $-x - 4y$	l $x^2 - 8x - y^2$

page 3: 1a 300,000 b 25 c 45 d 6 e 4 f 61 g 54 h 27 i 25 j 12 k 31 015

page 4: 1a $17x + 14$ b $44x^2 + 54x$ c $6x^2 - 15x - 47y$ d $38x^2 + 20x + 68$ e $-28x^2 + 54x + 42$
 f $29x^2 + 53x - 16$ g $-26x^2 + 8x + 20$ h $35x^2 - 13xy + 22$ i $4x + 34y + 64$ j $46x^2 + 3x$ k $65x^2 - 16x + 14$

page 5: 1a x^{10} b x^4 c $20x^{10}$ d $-4x^4$ e $60a^3cd$ f $(9/4)x^{-1}yz^4$ g $14a^8b^{-1}$ h 25

page 6: 1 a $9x + 3y - 3z$ b $12x^2y^2 + 28y^2$ c $7x^{22}y^{44} - 7x^{21}y^{45}$ d $9a^2 - 42a$ e $30a^2b^3 + 12a^2$ f $28x^4z - 7x^4y + 21x^5$

page 7: 1a $x^2 - 2x - 3$ b $x^2 + 3x - 10$ c $9x^2 - 24x + 16$ d $16x^2 - 1$ e $3a^2 - 2ab - b^2$ f $9x - 18$
 g $x^2 - 1$ h $x^2 + 2x + 1$

page 8: Exercise 1: substitutions

a 6	b -2	c 40	d 240	e 5	f -25	g 1	h 63
i 112	j -80	k 39	l 114				

Page 9 Exercise 2:

a 6	b 2	c 3	d 10	e 14	f 16	g 27	h 8
Exercise 3a 5040		b 720	c 362, 880	d 2			
Exercise 4 a 21	b 10	c 7	d 126				
Exercise 5 a 27	b 91	c 42	d 33				

page 11-12: Solving Equations Exercise 1:

a 1	b 16	c -9	d 12	e -12	f 23	g 100	h 54
i 4	j 6	k 3	l 5	m $\frac{1}{2}$	n -1	o -7	p 2
q -3	r 4	s 12	t 11	u 80	v 4	w $\frac{2}{3}$	x 1

y) 8 z) $88/7 = 12 \frac{4}{7}$ aa) $357/22 = 17 \frac{3}{22}$

page 13: (Eng to alg) Exercise 1: a 64 b 12 c 40 & 41 d 44 e 18 f J=17, C=15, A=10 g $15\frac{2}{3}$ John is weird.

Page 14: (% eqn) a 9.18 b 125.926 c 25.57% d 210.25 e 92 f 50% g 18.7176 h 162.133 i 59.09%

page 15: (inequalities): 1a) 6 b) -2, -1, 0, 1, 2, 3, 4, 5 c) 6 2a $x < \frac{5}{9}$ b $x > 0$ c. $x < -1\frac{4}{9}$ d. $k < 4$

page 16: (absolute value) 1a 77 b 7 c 1 d 47379 e 12 f 1;

(convert rates) 1a m=1 b m=1.4286 c x=0.07407 d x=0.6 e x=31.5 f x=0.36664

