New Elementary Mathematics 2

(Updated 11/19/2012)

Textbook

Page				Printing
59	Exercise 3.3		Students will not receive the necessary information to solve problems 5, 13, and 15 until after completion of Section 3.5	1999
72	Class Activity 1	8	Question should read "If A increases by 10%, its value becomes B. Then B is **110%** of A." or "If A **decreases** by 10%, its value becomes B. Then B is 90% of A."	1999
111	Exercise 5.1	4(c)	Should read: Join JK, **KM**, ML, and **LJ**	1999
127	Exercise 5.4	8	Line on the graph is incorrect, should end at 14:42.	1999
181	Exercise 8.2	7(b)(ii)	The triangles cannot be proven to be similar from what is given in the problem.	1999
297	Revision 2A	7	This problem is inappropriate for this level and has multiple answers. The smallest answer possible for the number of bad oranges is 34.	1999
225	Exercise 9.2	10	Not enough information given. Add **MN = PQ**	1999
304	Exercise 11.5	1(d)	This figure is mislabeled; B' should be C' and C' should be B' if the first translation is a reflection in the y-axis, as in the answer. Otherwise the first translation is a rotation of 90° about the point (0, 2.5). The second translation is an enlargement by a factor of 0.5 with center at O.	1999
	Answers			
427	Exercise 2.5	3(h)	$\frac{3x(3-2x)}{4yz(3+2x)}$	1999
429	Exercise 3.6	3.	–16 or 9	1999
429	Exercise 4.1	13(a)	1.5×10^8 km	1999
431	Misc. Ex. 1	3(b)	4	1999
		5	This problem requires knowledge of the quadratic formula, which students haven't learned yet.	1999
		14.b	9.6%	1999
432	Exercise 5.4	9(d)(i)	Between 50 s and 80 s, the distance between the cars increases from 200 km to 400 km.	1999
		9(e)	A regains the lead at 110 sec.	1999
		9(f)	Speed = 166.5 km/h	1999
		10	The man passes the old man again at **14:38**.	1999
436	Exercise 9.1	4(a)(i)	47 cm	1999
	Exercise 9.1	4(b)(i)	39 cm	1999
437	Exercise 9.5	4.	The orange with a diameter of 8 cm is the better buy.	1999
439	Revision 3A	8(b)(ii)	63 cm^2	1999
443	Revision 4C	8(a)	$-6x^5 + 2x^4 - 13x^3 - 10x^2 + 11x - 24$	1999
		10(b)(ii)	$x = 3$ or $-\frac{5}{42}$	1999
	Misc. Ex. 4	10	$y = \frac{a^2 - 2ab - b^2}{a^2 + b^2}$	1999
	Ass. 1 Paper 1	3	$x \leq \frac{83}{28}$	1999
		14	3:36 p.m. or 15:36	1999
		16	net **loss** of $12.50	1999
438	Exercise 10.5	15(a)	$(3x)^2 = (10 - 5\cos 27°)^2 + (5 \sin 27°)^2$	1999

Solutions Manual

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9	Exercise 1.4	6(a)	$\frac{12.4\times10^3}{9\times10^{-2}} = \frac{124\times10^2}{9\times10^{-2}}$ $= 13.8\times10^4$ $= 1.38\times10^5$	2006
12	Exercise 2.1	4(h)	$101 \times 99 + 1 - 99^2 = (100 + 1)(100 - 1)$ $= 100^2 - 1^2 + 1^2 - 99^2$ $= 100^2 - 99^2$ $= (100 + 99)(100 - 99)$ $= (199)(1)$ $= 199$	2006
24	Exercise 2.6	30	Last line should be $1\frac{\mathbf{2}}{\mathbf{3}} = x$	2006
53	Exercise 4.2	25(b)	1L petrol = \$1.20 91**0** L petrol = 91**0** x \$1.20 = \$1,092	2006
82	Exercise 5.4	5	Average speed of second bus = $22\frac{2}{5}$ **km/h**	2006
84	Exercise 5.4	9(c)(i)	0.2 km = 200 **m**	2006
84	Exercise 5.4	9(d)	… from 200 **m** to 400 **m**	2006
104	Exercise 7.2	2(g)	Signs should be all < rather than >	2006
233	Misc. Ex. 4	10	Delete the last step. The answer is $y = \frac{a^2 - 2ab - b^2}{a^2 + b^2}$	

Workbook

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10	Chapter 2	58	A certain number of straws can be divided evenly among 24 boxes. **If each box instead got 3 more straws**, 20 boxes could be filled evenly, and the rest would be empty. How many straws are there?	2005
66	Chapter 7	10(d)	Change to: the least possible value of $\frac{b}{a}$	2005
162	Final Ass. 2	3(b)	Change to: AX	2005
	Answers			
169	Chapter 3	9(a)	$y = \frac{x(x+1)}{x-3}$	2005
175	Chapter 6	32(a)	$x = \frac{1}{9},\ y = -\frac{1}{5}$	2005
177	Mid-Term, B	2(a)	$x < 1$	2005
	Chapter 8	9	$x = 4, y = 9$	2005