

## Dimensions Mathematics Core Edition 8A Workbook

### Workbook

					07/29/2014
Page	Ch.				Updated (mm/dd/yyyy)
iv				Chapter 3 Expansion and Factorization of Algebraic Expressions	
11	2	21		She answered $x$ questions correctly and $y$ questions <b>incorrectly</b> .	
13				3 Expansion and Factorization of Algebraic Expressions	
17	3	23	(a)	There is an extra comma at the end of the first sentence that should be removed.	
		25		The height $y$ <b>meters</b> of the stone ...	
24	4	30		A car begins to drive from Town A to town B via an expressway at 9:00 AM. A van leaves from town B to town A via the same <b>expressway</b> at 9:17 AM.	
26	5	8		Remove commas and period at the end of the equations.	
44	6	18		The points ... are rotated about the origin to the points ...	
45		23	(a)	Change last comma to a period.	
46		25	(b)(ii)	Hence, find the perimeter of the enlarged quadrilateral in <b>meters</b> .	
		27		The coordinates of P and Q are (0, 2) and (0, 4) respectively. (a) Find, by construction on a sheet of graph <b>paper</b> , ...	
47		29	(f)	Describe a <b>single transformation</b> that will map $\Delta A_1B_1C_1$ directly to $\Delta A_3B_3C_3$ .	
60	7	22		The diagram shows a rectangular box <b>ABDC</b> resting...	
62		27	(b)	If the sum of the interior angles of a regular ...	
		29		In the figure, $O$ is the <b>center</b> of the circle...	
Answers					
65	1	7	(e)	<b><math>6.75 \times 10^{-3}</math></b>	
		15		Problem number should be bolded.	
		22	(b)	<b><math>\frac{8}{9}</math></b>	
		25		Delete the (a).	
66		34	(a)	<b><math>\\$4.683 \times 10^4</math></b>	
		40	(c)	Change (ii) to (iii).	
67	2	24	(b)	<b><math>6x + 10y = 7</math></b>	
	3			Chapter 3 Expansion and Factorization of Algebraic Expressions	
		2	(g)	<b><math>4a^3 + 3a^2 + 2a - 15</math></b>	

		9	(i)	$4(5x + 4t)(5s - 4t)$	
			(j)	$3\left(\frac{3}{5}p + q\right)\left(\frac{3}{5}p - q\right)$	
		18	(c)	$(2p - q)^2$	
68	3	23	(b)(ii)	$10\pi(3r + 8s)^2 \text{ cm}^2$	
		24		(a) 58 (b) 770	
		25	(b)(ii)	Vertical distance: 4 m; Time: 2 s	
		26	(b)(ii)	6 s	
		27	(a)(i)	$(2x - 3y) \text{ cm}$	
	4	3	(a)	$2(y + 2)(y + 4)$	
			(f)	$3(2p - 5)(3p + 1)$	
		7	(d)	$-1\frac{1}{3}$ or $-7$	
			(f)	$-2\frac{1}{2}$ or $\frac{2}{3}$	
		11	(b)	$(3b - 4)(b - 1)$	
		12	(b)	$(p - 3q)(p - 2q)$	
		20	(b)	Replace answer with (ii) 4	
		21	(b)(ii)	5 (delete part of the answer: or $-2.4$ )	
69		22	(b)	$(w - 1)^2(w + 2)$	
		23	(b)	Delete part of the answer: or $-19$ , or $0$	
		24	(b)	Delete part of the answer: or $-1.9$	
		26	(c)	(i) 3 cm (ii) 5 cm	
	5	4	(d)	$\frac{4ac - 3b}{a^2bc}$	
			(h)	$\frac{2n^2 + m^2}{4mn}$	
		5	(g)	15 or $11\frac{2}{7}$	02/25/2015
		9	(a)	$y = \frac{x}{3z + 2}$	
70		27	(c)(ii)	Delete part of the answer: or $-41\frac{5}{11}$	
		28	(c)(ii)	Delete part of the answer: or $-18.375$	
71	6	14		Delete parts (c) and (d).	
		22	(a)	$x = 8 \text{ cm}$ , $y = 5 \text{ cm}$ , $m\angle z = 102^\circ$	
			(b)	$m\angle x = 25^\circ$ , $y = 4.55 \text{ cm}$ , $z = 13.2 \text{ cm}$	
				Delete parts (c) and (d).	
		29	(c)(ii)	$A_2(-5, 2)$ , $B_2(-8, 2)$ , $C_2(-6, -1)$	
			(e)(ii)	$A_4(-3, -2)$ , $B_4(-3, -5)$ , $C_4(0, -3)$	
72	7	9	(d)	$125^\circ$	