## Dimensions Mathematics Core Edition 7B Teaching Notes and Solutions

(Updated 10/16/2014)

Page				
13	Class	2(e)		<i>a</i> <sub>5</sub> = 9
15	Activity 1	2(0)		45 - 3
14	Class	1(a)		There should be an H attached at the end
	Activity 2			of the second carbon compound.
20	Ex. 9.1	4(d)	Solution	$T_7 =\frac{256}{9} \times \left(-\frac{2}{3}\right)$
37	Ex. 10.2	7(c)	Solution	This is mislabeled as (b).
43	Rev. Ex. 10	5(a)	Solution	Remove lines BD and AC.
44		7(c)	Solution	rate \$0.40/mile after (remove s from
		24.)		miles)
50	Ex. 11.1	2(c)	Solution	$x \le 1\frac{1}{2}$
51		3(c)	Solution	Second line:
				$\left  \frac{8}{5} \times \left( \frac{5}{8} x \right) < \frac{8}{5} \times \left( -\frac{15}{4} \right) \right $
52		7	Solution	$x > \frac{1}{5} \times 35$
		8	Solution	$x \le \frac{1}{8} \times (-6)$
57	Ex. 11.4	10	Question	Find the number of months Rachael has to be
			Solution	164 – 7 <i>m</i> < 12 <mark>8</mark>
		11	Solution	$y \le 26 \frac{8}{17}$
58	Rev. Ex. 11	2(b)	Solution	First line:
				a < 7
59		3	Solution	The solutions should be shown on a
				number line.
		4(a)	Solution	Second line
				$x \le \frac{1}{8} \times 32$
		6(a)	Solution	3(5-4) + 2(x+6) = 15-12+2x+12 = $17x$
		6(b)	Solution	$3(5-4)+2(x+6) \ge -51$
60		10	Question	number of times she swam in the club
74	Ex. 12.2	3(b)	Solution	$= 63.55 \text{ cm}^2$
76	Ex. 12.3	2	Question Solution	DF first row, fourth column of the table
		2(b)	Solution	DE is 6 (third column, third row of table)
	I	-1~/	30.0.00	

79	Ex. 12.4	2	Question	h first row, third column of table	
92	Try It	3(c)	Solution	Second line:	
				$x = \sqrt[3]{360}$	
107	Rev. Ex. 13	7(d)(ii)	Solution	Volume of cabinet	
				= 264,000	
				- <del>1,000,000</del>	
113	Try It	3(b)	Solution	Actual area of the bathroom = 2.4 x 2	
114	Try It	7(a)	Solution	Since $\frac{t}{-} = \frac{1}{-}$	
				w 15	
		7(c)	Solution	$\frac{t}{t} = \frac{1}{t}$	
		- ( )		w 15	
		7(d)	Solution	His wages were \$525.	
		7(e)	Solution	When w = 675,	
10.1			0.1	675 = 15 <i>t</i>	
124	Ex. 14.3	4	Solution	4 <sup>th</sup> line:	
				$\frac{12}{8} = \frac{q}{24}$	
130	Ex. 14.4	14(a)	Solution	8 24	
130	EX. 14.4	14(a)	Solution	$56 = \frac{k}{3^2}$	
145	Ex. 15.3	5(b)	Solution	Sum = 0 (Set A table, last line under	
143	LX. 13.3	3(0)	Solution	Deviation from Mean)	
152	Ex 15.5	4(a)	Solution	occurs most often, i.e.,	
154	Rev. Ex. 15	8(a)	Solution	Total number of pets	
155		2(a)	Solution	The second value for the numbers on the	
		(-)		line plot should be 11.6.	
156		7	Solution	The line "Median salary = \$3,000" is part	
				of the solution for (c), and (d) should be in	
				front of the next line.	
157		5(d)	Solution	The last value under Data Value in the	
				chart for Supermarket A should be 5.2.	
158		9(a)	Solution	For the line where Group A's values are	
				arranged in ascending order, the value 74	
				should instead be 70.	
		9(d)	Solution	6 <sup>th</sup> row up from the bottom should be:	
				70 11 11	
				Last row should be	
4==		0/ 13		Sum = 0 Sum = 268	
159		9(d)	Solution	MAD for Group A = $\frac{268}{16}$ = 16.75	
		9(e)	Solution	from Group A differ from the mean (59	
				points) by 16.75 points	
163	Class	1(d)		The answers in (b) and (c) should be the	
	activity 4			same as or close to each other.	
		2(b)		The answers in for 2(a), 1(b) and 1(c)	
				should be the same as or close to each	
				other.	

174	Ex. 16.2	9(c)	Solution	There is no blue rose.	
1/4	EX. 10.2	9(0)	301411011		
				P(a blue rose) = 0	
178	Ex. 16.3	2(b)	Solution	Delete the period at the end.	
181	Rev. Ex. 16	17(a)(ii)	Solution	P(last digit is a '9') = $\frac{100}{1,000}$	
201	Ex. 17.2	12(b)(i)	Solution	The outcomes of event B are (1, 1), (1. 2),	
				<mark>(1</mark> , 3),	
		13(a)	Solution	Second to last line:	
				_ 4 _ 6	
				$=\frac{4}{36}+\frac{6}{36}$	
205	Ex. 17.3	12(c)	Solution	Last line:	
				8	
				105	
207	Ex. 17.4	6(a)	Solution	P(both cards are red) = $\frac{26}{52} + \frac{25}{51}$	
208		8	Question	If she selects one of the 10 tulip bulbs at	
				random and plants it, find	
209		15(a)	Solution	Let B stand for a black card	