	L	P 4-2			
NAI	ME				
PYT	HAGOREAN DIVISION	MEET 2	DECEMBER 4, 201		GRADE MINUTE
Dire	ections: Place your answer to each que	estion below in t	he answer column.	ANSWER	
1)	$a \Delta b$ means $(a \times b) - a$ . For example the value of $(7 \Delta 3) \Delta 2$ in simplest 1	$e, 5 \Delta 3 = (5 \times 3)$		1)	
2)	How many rectangles are there in the	<b>馬</b> 袋	ght?	2)	
3)	The Points A, B, C, D, E are on a straight line, as shown. If Point B is as far from Point C as it is from Point A and Point D is as far from Point C as it is from Point E, then the distance from Point B to Point D is".		D E	3)	
4)	Tom is 8 years older than Kenny. Ke 7 years younger than Barbara. If Bar years older than Barbara.	nny is 2 years ole bara is 16 years	der than Mary. Mary is old, then Tom is	4)	
5)	Marbles are released through the network from S and continue flowing to the right. At each of the junctions half the marbles flow in each direction. If 120 marbles are released through the network, how many of the 120 marbles do not reach F?	g s, s. e	B H F G	5)	
	"Widgets" cost \$9 each and "gidgets' spent \$75 for "widgets" and "gidgets" the fewest "gidgets" possible. Jahle fewest "widgets" possible. Kiaera bo	. Kiaera bought tel bought the m	the most "widgets" and	6)	

PYTHAGOREAN DIVISION MEET 2 DECEMBER 4, 2014 SOLUTIONS GRADE 4

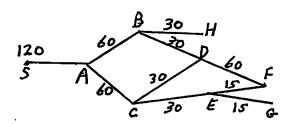
The answer to each question is in parentheses at the beginning of each solution.

1)	(1.4)	a + 2 = (a + 2) + a = 21 + a = 14	14 $\triangle 2 = (14 \times 2) - 14 = 28 - 14 = 14$ .
1)	(14)	/ \(\D\) = (/ \(\D\)) = / - \(\D\) = / - \(\D\)	14 DZ (11 Z) 11 ZO 11 11

2) (11) By numbering the sections, the 11 rectangles are 1, 2, 3, 4, 5, 1 & 2, 2 & 3, 1 & 2 & 3, 3 & 4, 4 & 5, 3 & 4 & 5.

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	3	4	5
	2		
	1		

- 3) (13) BC = 5" also. That makes CE = 16". If BC = 5" and CD = 8" (half of 16"), then BD = 13".
- 4) (3) If Barbara is 16, then Mary is 9 and Kenny is 11 years old. Tom is 11 + 8 = 19 years old and 3 years older than Barbara (19 16 = 3).
- 5) (45) Seventy-five, 75, marbles arrive at F. 120 75 = 45 do not.



To find the most "widgets" keep subtracting \$6 from \$75 until you reach an amount divisible by \$9. \$75 - \$6 = \$69. \$69 - \$6 = \$63. Kiaera bought 7 "widgets" at \$9 each (\$63) and 2 "gidgets" at \$6 each (\$12). \$63 + \$12 = \$75. To find the most "gidgets" keep subtracting \$9 from \$75 until you reach an amount divisible by \$6. \$75 - \$9 = \$66. Jahleel bought 11 "gidgets" at \$6 each (\$66) and 1 "widget" at \$9. \$66 + \$9 = \$75. Kiaera bought 6 more "widgets" than Jahleel (7 - 1 = 6).