






Week 6 Jan Answers Extra Problems

Lesson 1

- 1) There are only two possible calculations. Although 2 is a factor of 2608, 2 would need to be multiplied by a 4-digit number to give 2608.

			H	T	O	
			6	5	2	
	x				4	
		2	6	0	8	
		2	2			

			H	T	O	
			3	2	6	
	x				8	
		2	6	0	8	
		2	2	4		

2)	Child	Clue	Calculation
	Moirag 	The answer to my calculation is an even number.	C
	Polly 	The answer to my calculation is greater than 5000.	B
	Rocky 	The sum of the digits for the answer to my calculation is 16.	D
	Olga 	My calculation required no regrouping.	A
	Taj 	The answer to my calculation has a place holder.	E

A

			2	1	3	
	x				3	
		6	3	9		

B

			9	8	9	
	x				7	
		6	9	2	3	
		6	6	6		

C

			5	9	4	
	x				8	
		4	7	5	2	
		4	7	3		

D

			9	3	8	
	x				8	
		7	5	0	4	
		7	3	6		

E

			3	7	5	
	x				6	
		2	2	5	0	
		2	4	3		

Lesson 2



1) a)

3	2	1	2
×			3
9	6	3	6

b)

	4	0	1	5
×				4
1	6	0	6	0
			2	

c)

	6	1	0	3
×				5
3	0	5	1	5
			1	

2) a) *There are four possible solutions.*

$$1221 \times 3 = 3663$$

$$1441 \times 2 = 2882$$

$$1331 \times 2 = 2662$$

$$1221 \times 4 = 4884$$

b) *Look for children explaining that A must have a value of 1 to ensure that the answer C has the same value as the multiplier C. None of the letters can have a value of 0. Multiplying B by C must not result in any regrouping, so these letters must have a value of less than 5.*

Lesson 3

1) a) *Possible solutions include $24m \times 16m$, $13m \times 29m$ and $18m \times 22m$.*

b) *Possible solutions include $23m \times 17m$, $14m \times 26m$ and $14m \times 28m$.*

c) *The sides of the hall floor measure $23m$ and $17m$.*
 $23m \times 17m = 391m^2$