1)

a) 12

b) 7

c) 48

2)

6 × 4 = 24	✓
4 ÷ 6 = 24	✗
4 × 6 = 24	✓
24 ÷ 4 = 6	✓
6 ÷ 4 = 24	✗

3)

1 × **4** = 4	7 × 4 = **28**
2 × 4 = 8	**8** × 4 = 32
3 × 4 = **12**	9 × 4 = **36**
4 × **4** = 16	**10** × 4 = 40
5 × 4 = **20**	11 × 4 = **44**
6 × 4 = 24	**12** × 4 = 48

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1) Paulo is right. The multiples in the four times table increase by 4 each time. 4 is an even number. If you add two even numbers, you will get an even number. As you are always adding an even number, the pattern will continue to be even numbers.

2)

a) This model correctly shows 6 × 4 = 24.

b) This model is incorrect. The answer should be 12.

c) Paulo has made a mistake. The calculation shows 5 lots of 4, which is 20.

d) Paulo has made a mistake. Although the towers contain 16 cubes, which is a multiple of the 4 times table, the towers are not in equal groups of 4.

e) This model correctly shows 8 × 4 = 32.

f) This model correctly shows 24 ÷ 4 = 6.

1) Raul has 15 biscuits.

2) Raul could have between 31 and 39 toys.

Packs of 3	Packs of 4	Total Number of Toys
1	9	1 x 3 = 3 9 x 4 = 36 36 + 3 = 39
2	8	2 x 3 = 6 8 x 4 = 32 32 + 6 = 38
3	7	3 x 3 = 9 7 x 4 = 28 28 + 9 = 37
4	6	4 x 3 = 12 6 x 4 = 24 24 + 12 = 36
5	5	5 x 3 = 15 5 x 4 = 20 20 + 15 = 35
6	4	6 x 3 = 18 4 x 4 = 16 18 + 16 = 34
7	3	7 x 3 = 21 3 x 4 = 12 21 + 12 = 33
8	2	8 x 3 = 24 2 x 4 = 8 24 + 8 = 32
9	1	9 x 3 = 27 1 x 4 = 4 27 + 4 = 31