Name _____   Date _____

Filling In Patterns Step By Step Lesson

The series of integers and values below follow a mathematical pattern.

Find the values of A, B, and C.

4	8	16	A	64	B	256	512	C	2,048

Explanation:

Find the difference or operations between successive boxes.

We can identify two sets of successive boxes.

Set 1: 4, 8, 16   Set 2: 256, 512

Let's start with set 1.

Ask yourself, "how you would get that next number?" Since it follows a pattern, whatever operation was applied to the first number, must be applied to the second number too. The possibilities are listed between the box.

4		8		16
	4 + **4** = 8 4 **x 2** = 8		8 + **8** = 16 8 **x 2** = 16	

The only operation that applies to is multiplying by 2. We can check that this is in fact the pattern by using the second set. 256 x 2 = 512.   That operation fits that pattern. We will just need to apply this to the entire pattern to complete it.

4	8	16	32	64	128	256	512	1,024	2,048
		16 x 2 =	32	64 x 2 =	128		512 x2 =	1,024	

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