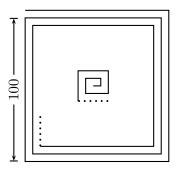
ERRATA FOR THE 2011 SMO SOLUTION BOOK

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p7. Q28.



p12. Q16. Answer: 7981.

The total number of solutions is

$$3(1 \times 2 + 2 \times 3 + \dots + 19 \times 20) + 1$$

$$= (2^{3} - 1^{3}) + (3^{3} - 2^{3}) + \dots + (20^{3} - 19^{3}) - 20 + 1$$

$$= 20^{3} - 19 = 7981.$$

p13. Q19. Answer: 256.

So
$$m = (5 - 1 - 2)^2 = 4$$
 and $M = (5 + 1 + 2)^2 = 64$. Thus, $m \times M = 256$.

p16. Q26. Answer: 3.

There are 3 cases: (4,1,1,1), (3,2,1,1) and (2,2,2,1).

Q28. Answer: 10403.

The broken line is constructed using "L", with lengths $2, 4, 6, \ldots, 200, 202$, and a segment of length 101. Then the total length is $2(1 + 2 + 3 + \cdots + 101) + 101 = 10403$.