

Answer Key

Pre-Algebra
 Unit 10: Similar Figures
 Extra Practice 10.5

	Original Dimensions	Original Perimeter	Original Area	Scale Factor	New Dimensions	New Perimeter	Square of the Scale Factor	New Area
1)	5×10	30	50	2	10×20	60	4	200
2)	2×3	10	6	4	8×12	40	16	96
3)	4×5	18	20	3	12×15	54	9	180
4)	7×7	28	49	$\frac{1}{7}$	1×1	4	$\frac{1}{49}$	1
5)	1×3	8	3	4	4×12	32	16	48
6)	6×6	24	36	$\frac{1}{3}$	2×2	8	$\frac{1}{9}$	4
7)	6×7	26	42	1	6×7	26	1	42
8)	4×8	24	32	$\frac{1}{4}$	1×2	6	$\frac{1}{16}$	2