

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) | $5 \times 10$       |                    |               | 2             |                |               |                            |          |
| 2) |                     | 10                 | 6             |               |                | 40            |                            |          |
| 3) | $4 \times 5$        |                    |               | 3             |                |               | 9                          |          |
| 4) |                     | 28                 | 49            | $\frac{1}{7}$ |                |               | $\frac{1}{49}$             |          |
| 5) | $1 \times 3$        | 8                  |               |               | $4 \times 12$  |               |                            |          |
| 6) |                     |                    | 36            |               | $2 \times 2$   |               |                            | 4        |
| 7) | $6 \times 7$        |                    |               | 1             |                |               |                            |          |
| 8) |                     | 24                 | 32            |               | $1 \times 2$   | 6             | $\frac{1}{16}$             |          |