

Name : \_\_\_\_\_

## Perimeters and Areas

Sheet 1

A) Complete the table.

	Perimeter of figure P	Scale factor of P to Q	Ratio of perimeters	Perimeter of figure Q
1)	23 yd	2 : 1		
2)	7.2 in	8 : 5		
3)	45 ft	1.5 : 7		
4)	52 yd	1.3 : 0.25		
5)	32.9 ft	1 : 4		
6)	41.07 in	3.7 : 2.4		

B) Complete the table.

	Area of figure A	Scale factor of A to B	Ratio of areas	Area of figure B
1)	18 in <sup>2</sup>	3 : 4		
2)	6 ft <sup>2</sup>	2.5 : 0.8		
3)	37 in <sup>2</sup>	5 : 8		
4)	100.86 yd <sup>2</sup>	4.1 : 1		
5)	53.9 yd <sup>2</sup>	7 : 9		
6)	21.54 ft <sup>2</sup>	1 : 0.5		

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**Answer key****Perimeters and Areas**

Sheet 1

A) Complete the table.

	Perimeter of figure P	Scale factor of P to Q	Ratio of perimeters	Perimeter of figure Q
1)	23 yd	2 : 1	<b>2 : 1</b>	<b>11.5 yd</b>
2)	7.2 in	8 : 5	<b>8 : 5</b>	<b>4.5 in</b>
3)	45 ft	1.5 : 7	<b>1.5 : 7</b>	<b>210 ft</b>
4)	52 yd	1.3 : 0.25	<b>1.3 : 0.25</b>	<b>10 yd</b>
5)	32.9 ft	1 : 4	<b>1 : 4</b>	<b>131.6 ft</b>
6)	41.07 in	3.7 : 2.4	<b>3.7 : 2.4</b>	<b>26.64 in</b>

B) Complete the table.

	Area of figure A	Scale factor of A to B	Ratio of areas	Area of figure B
1)	18 in <sup>2</sup>	3 : 4	<b>9 : 16</b>	<b>32 in<sup>2</sup></b>
2)	6 ft <sup>2</sup>	2.5 : 0.8	<b>6.25 : 0.64</b>	<b>0.6144 ft<sup>2</sup></b>
3)	37 in <sup>2</sup>	5 : 8	<b>25 : 64</b>	<b>94.72 in<sup>2</sup></b>
4)	100.86 yd <sup>2</sup>	4.1 : 1	<b>16.81 : 1</b>	<b>6 yd<sup>2</sup></b>
5)	53.9 yd <sup>2</sup>	7 : 9	<b>49 : 81</b>	<b>89.1 yd<sup>2</sup></b>
6)	21.54 ft <sup>2</sup>	1 : 0.5	<b>1 : 0.25</b>	<b>5.385 ft<sup>2</sup></b>