

Name : _____

Surface Areas and Volumes

Sheet 2

A) Complete the table.

	Surface Area of figure X	Scale factor of X to Y	Ratio of Surface Areas	Surface Area of figure Y
1)	68.89 in ²	8.3 : 2.7		
2)	178 yd ²	2 : 9		
3)	72 ft ²			
4)	637 yd ²			
5)	7.68 in ²			
6)	38.44 in ²			

B) Complete the table.

	Volume of figure X	Scale factor of X to Y	Ratio of Surface Areas	Volume of figure Y
1)	511.10 in ³			
2)	10 in ³			
3)	1625 yd ³	5 : 2.4		
4)	5.832 ft ³	0.9 : 5		
5)	4116 yd ³	7 : 6		
6)	93.75 in ³	2.5 : 7		

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Answer key

Surface Areas and Volumes

Sheet 2

A) Complete the table.

	Surface Area of figure X	Scale factor of X to Y	Ratio of Surface Areas	Surface Area of figure Y
1)	68.89 in ²	8.3 : 2.7	68.89 : 7.29	7.29 in²
2)	178 yd ²	2 : 9	4 : 81	3,604.5 yd²
3)	72 ft ²			128 ft²
4)	637 yd ²			393.25 yd²
5)	7.68 in ²			248.43 in²
6)	38.44 ft ²			1 ft²

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B) Complete the table.

	Volume of figure X	Scale factor of X to Y	Ratio of Surface Areas	Volume of figure Y
1)	511.10 in ³			41.154 ft³
2)	10 in ³			270 in³
3)	1625 yd ³	5 : 2.4	125 : 13.824	179.712 yd³
4)	5.832 ft ³	0.9 : 5	0.729 : 125	1,000 ft³
5)	4116 yd ³	7 : 6	343 : 216	2,592 yd³
6)	93.75 in ³	2.5 : 7	15.625 : 343	2,058 in³