

Scale Factors

1:30

surface area = $30^2 = 900 \text{ cm}^2$ OK

volume = $30^3 = 27,000 \text{ cm}^3$

surface area

1:30

342.6 ft^2	12in	12in	2.54cm	2.54cm	= $318,285 \text{ cm}^2$
	1ft	1ft	1inch	1inch	

$318,285 \text{ cm}^2 \div 342.6 \text{ cm}^2 = 929$

(actual) (model)

1:929

Volume

684 ft^3	12in	12in	12in	2.54cm	2.54cm	2.54cm	= $19,368,723 \text{ cm}^3$
	1ft	1ft	1ft	1in	1inch	1inch	

$19,368,723 \text{ cm}^3 \div 684 \text{ cm}^3 = 28316$

(actual) (model)

1:28316