Mathematics 172

Quiz	#24
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Name: Key

You must show your work to get full credit.

A bluefin tuna which is 108 cm long, weighs 20.6kg. Predict the weight is bluefin tuna that is 400 cm long.

Then
$$W(108) = C(108)^3 = 20.6 \text{ Mg}$$
,

So $C = \frac{20.6}{(108)^3} = 1.6353 \times 10^{-5}$

and thus

$$\overline{W}(2) = 1.6353 \times 10^{5} e^{3}$$

Then
$$W(400) = 1.6353 \times 10^{5} (400)^{3} = 1046.6$$