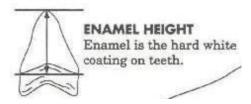
Estimating Shark Size Based on Teeth

Part I:

How to measure a shark tooth.



Part II:

Calculating size of the shark based on tooth size.

To calculate the size of the tooth you take the enamel high in **inches** and multiply that by 10 to get the estimated length in feet.

Sometimes we do not measure in inches, we measure in centimeters so we need to convert!

Example: If a sharks' tooth is 1.56cm estimate how long the shark' s body is.

Step 1: Convert from centimeters to inches

$$\frac{1.56cm}{1} * \frac{1in}{2.54cm} = \frac{1.56cm*in}{2.54cm} = \frac{1.56}{2.54}in = 0.61417in = 0.614in$$

Step 2: Multiple the height of the shark tooth in inches by 10.

$$0.614in * 10 \left(\frac{ft}{in}\right) = 6.14feet$$

Step 3: Answer

Estimated Shark Length = 6.12feet

Estimate the size of the shark given it's tooth height

1. Shark Tooth Height= 2.12cm

Divide By 2.54: _____

Multiple by 10:_____

Answer: _____

2. Shark Tooth Height= 1.25cm

	Divide By 2.54:
	Multiple by 10:
	Answer:
	*MOVING ON TRYING SETTINGUP YOUR OWN WORK
3.	Shark Tooth Height= 1.65cm
4.	Shark Tooth Height= 0.75cm
5.	Shark Tooth Height= 1.98cm
_	
6.	Shark Tooth Height= 2.01cm
w l	et's try working backwards: Given the length of a shark estimate the size of its tooth.
	Length = 6ft (answer in inches)
•	The opposite of multiplying id dividing so:
	Divide by 10:
	Answer:
8	Length = 12.5ft (answer in inches)
0.	Length – 12.51t (driswer in menes)
9.	Length = 13.2ft (answer in cm)
	Divide by 10:

Now let's

Multiply by 2.54:	
Answer:	

Challenge Questions:

10. What is the estimated length of a shark whose tooth is 1.66cm? Report answer in meters.