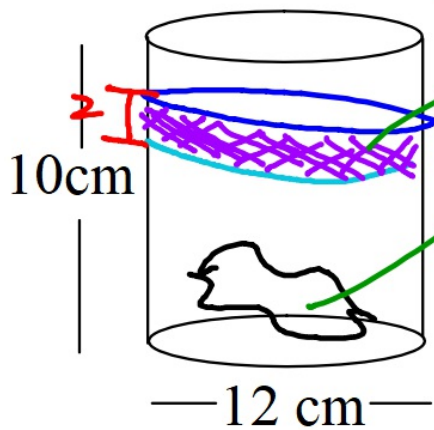


Good morning: warm up

An object is submerged in the cylinder below. The water level is at 5cm before submersion, and is 7cm after. If the density of the object is known to be 5g/cm^3 , find the object's mass.



$$V = \pi (6)^2 \cdot 2$$

$$72\pi \approx 226 \text{ cm}^3$$

$$1.131 \text{ kg}$$

$$1131 \text{ g}$$

Last day to retake Q3 grades: March 13

Formulas Quiz Monday

Assessment Tuesday

visibly random grouping

HW p522

9 B

10 5x5 ft

11 3870.72 lb

12 C

13 3.54kg

14 1426.3kg

What's on Tuesday's test

new skills

MG-A1a: Using volume/SA in problem solving: cone, cyl, sphere, prism, pyramid

MG-A2: Density: mass/volume and population

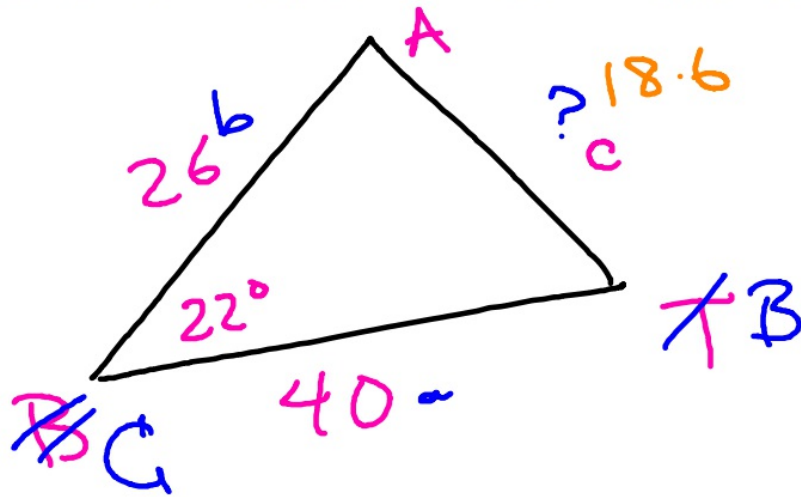
old skills

GMD-A2a: Finding volume/SA: cone, cyl, sphere, prism, pyramid

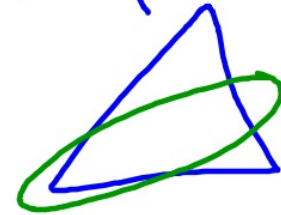
SRT-C8b: Law of Sines/Cosines



Law of Sines/Cosines Practice



use L.O.S.
if possible



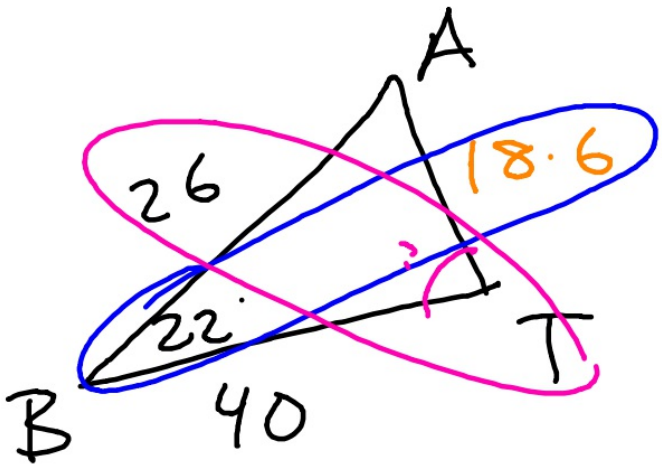
Can't.....

$$c^2 = b^2 + a^2 - 2ab \cdot \cos C$$

$$c^2 = 26^2 + 40^2 - 2(40)(26)\cos(22)$$

$$c^2 = 347.457$$

$$c \approx 18.6$$



$$\frac{22}{18.6} = \frac{T}{26}$$

$$\frac{\sin 18.6}{22} = \frac{\sin 26}{T}$$

$$\frac{\sin 22}{18.6} \neq \frac{\sin T}{26}$$

$$\frac{18.6 \cdot \sin T}{18.6} = \frac{9.739}{18.6}$$

$$\sin T = 0.524$$

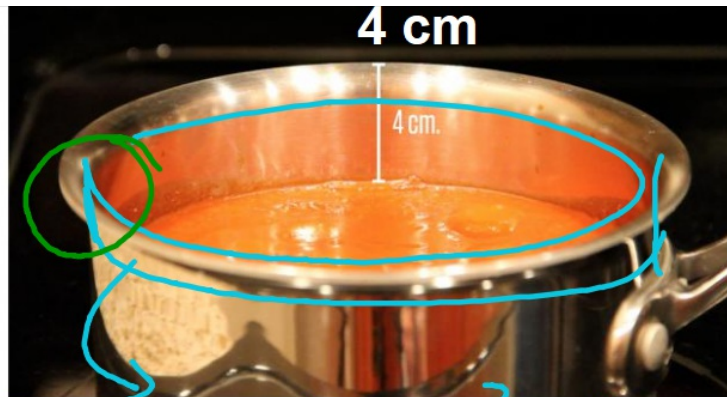
$$\sin^{-1}(0.524) = T \rightarrow \boxed{T \approx 31.6^\circ}$$

What's the first question that comes to mind?

How many meatballs will fit in the pot? Write down your guess.



What information is needed to solve this problem??



Avg Diameter 3.54 cm
 $r = 1.77$



$V = \pi (7.75)^2 \cdot 4$
 $V \approx 754 \text{ cm}^3$
 Empty SPACE

$\frac{754}{23} \approx 32$

$V = \frac{4}{3} \pi (1.77)^3$
 $V \approx 23 \text{ cm}^3$
 meat



What's the first question that comes to mind?

What are the first questions that come to mind?



How many tickets are on the roll? Record your guess.



What do you need to know to answer this question?



All shown in millimeters

0.22 thick

168.65

25.03



51.21



27.77



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