“Count Your Eggs Before They Hatch”

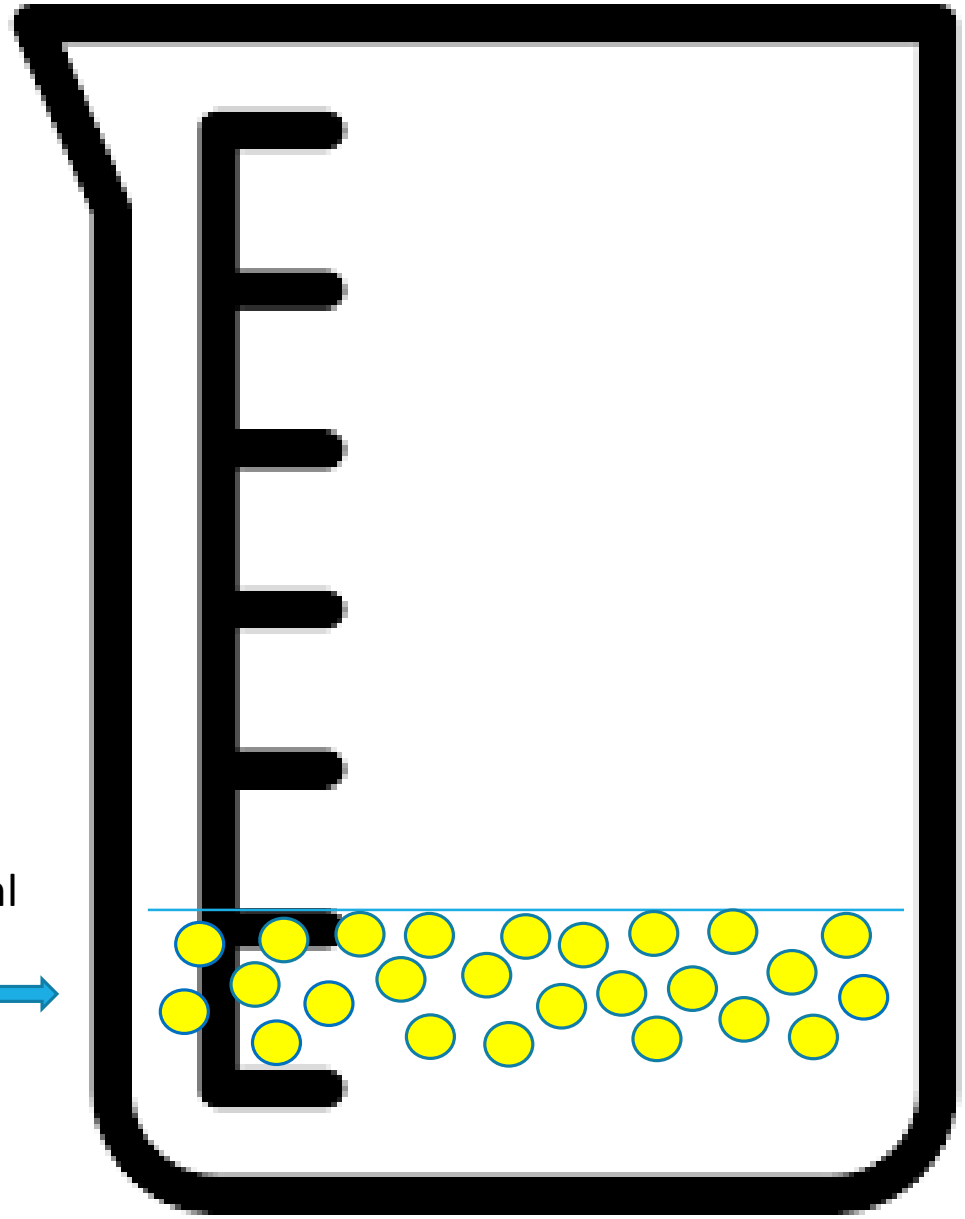
Red Drum Egg Estimation Activity

How many red drum eggs are in a 15,000 milliliters (ml) hatchery incubation tank?

1. Count the number of fish eggs in the 250 milliliters (ml) beaker sample.
2. Calculate the number of eggs per milliliter.
   - Divide the number of eggs counted in the sample by 250 (sample volume) to calculate the number of eggs per milliliter.
3. Calculate the number of eggs in the incubator
   - Take the number of eggs per milliliter and multiply by 15,000 (incubator volume) = egg number in the incubation tank.
4. You now have estimated the # of eggs in the incubator!

EGG-TASTIC!

SAMPLE 1



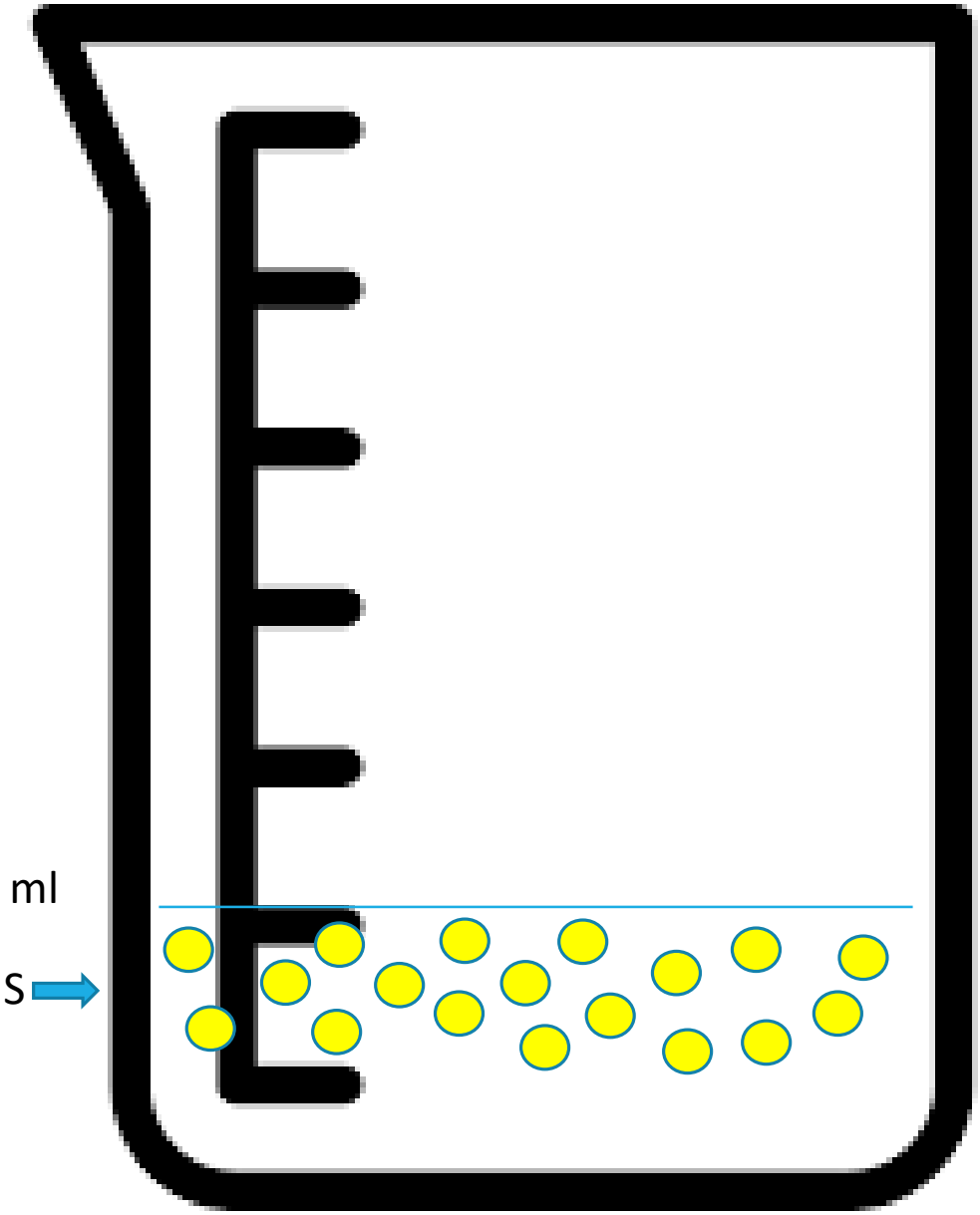
INCUBATOR VOLUME
15,000ml

BEAKER VOLUME
1,000ml

SAMPLE VOLUME
250ml

1-Liter (L) = 1,000 milliliters (ml)

SAMPLE 2



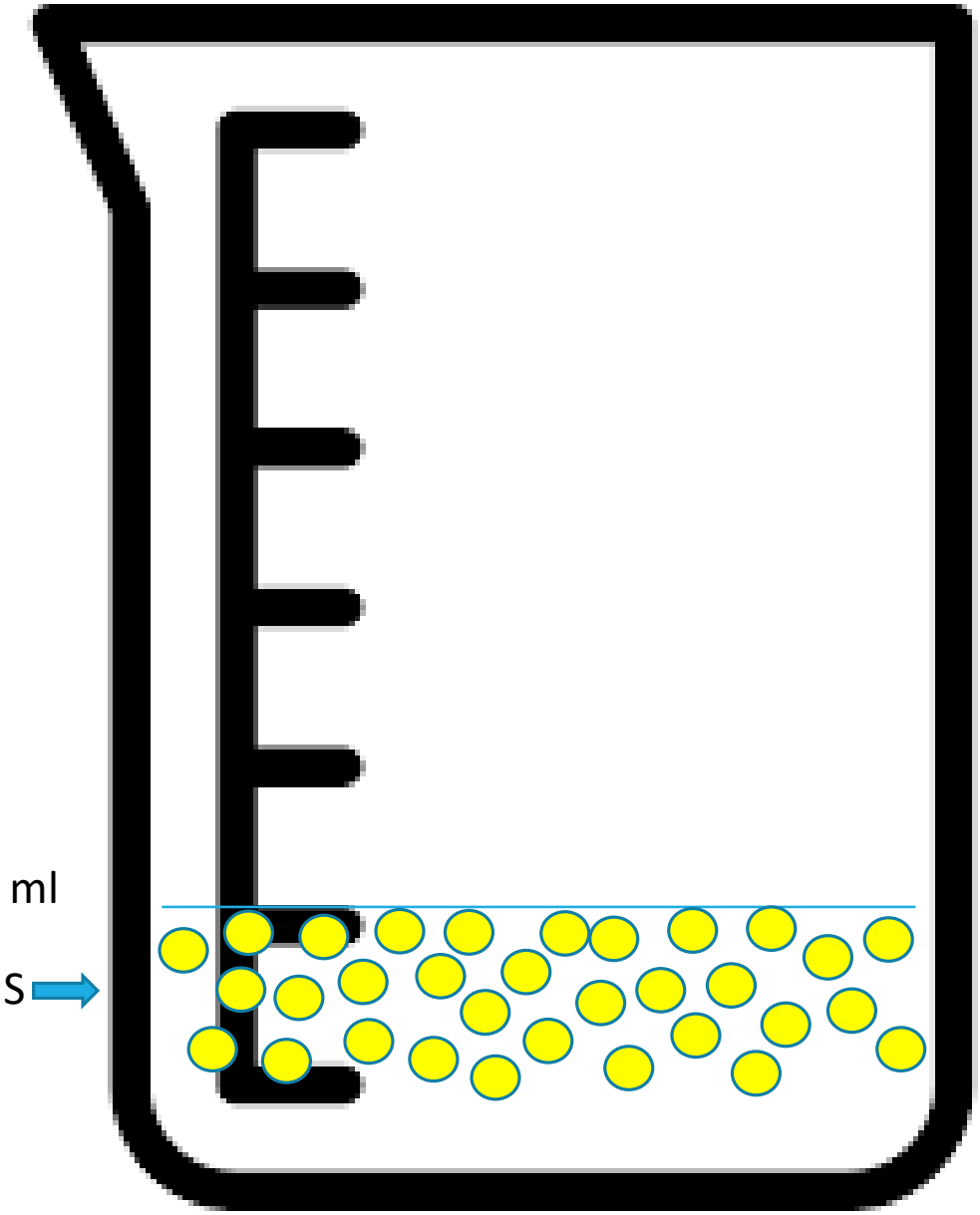
INCUBATOR VOLUME
15,000ml

BEAKER VOLUME
1,000ml

SAMPLE VOLUME
250ml

1-Liter (L) = 1,000 milliliters (ml)

SAMPLE 3



INCUBATOR VOLUME
15,000ml

BEAKER VOLUME
1,000ml

SAMPLE VOLUME
250ml

1-Liter (L) = 1,000 milliliters (ml)

Red drum egg incubation estimation			
Date_____			
Name:_____	_____ _____		
Sample Beaker Volume (milliliters):	250	**Sample Egg Number:_____**	
Incubator Volume (liters):	15	X = _____	
Incubator Volume (milliliters):	15,000	(X = eggs in incubator)	
Example to Follow:			
45 (sample egg number) = 0.18 (eggs per ml)	X	15,000 (incubator volume) = X	
250 (sample volume)			
or			
45 (sample egg number) x 15,000 (incubator volume) / 250 (sample volume)			
675,000	/	250 = X	
X = 2,700 eggs estimated in incubator			

Red drum egg incubation estimation

Date_____

Name:_____

Sample Beaker Volume (ml): 250ml

Sample Egg Number:_____

Incubator Volume (liters): 15L

X = _____

Incubator Volume (milliliters): 15,000ml

(X = eggs in incubator)

Example to Follow:

45 (sample egg number) / 250 (sample volume) = 0.18 (eggs per ml) x 15,000 (incubator volume) = **X**

or

45 (egg number) x 15,000 (incubator volume) / 250 (sample volume)

675,000 / 250 = **X**

X = 2,700 eggs estimated in incubator

Answer Key:

Sample #1 – 1,500 eggs

Sample #2 – 1,080 eggs

Sample #3 – 1,920 eggs