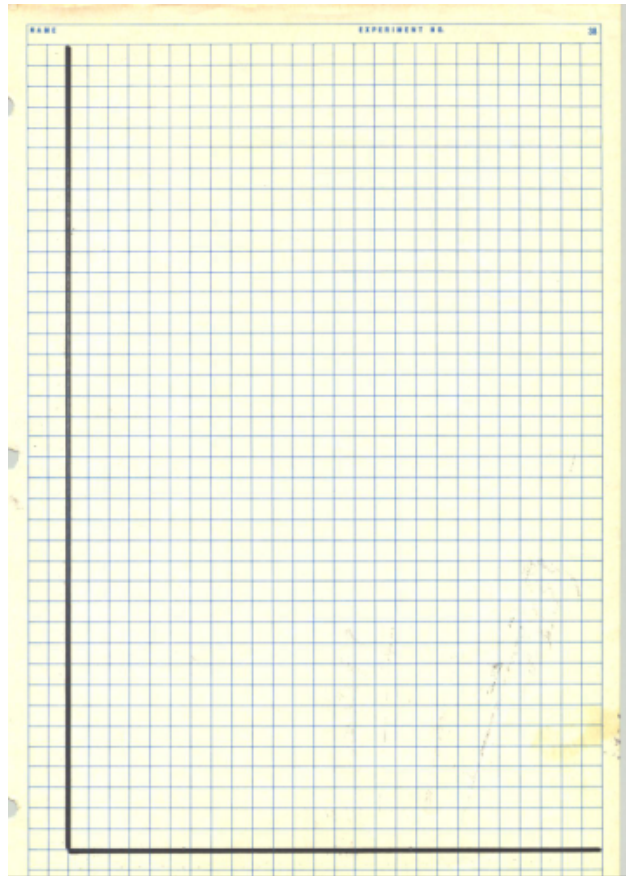


block:	volume:	mass:	density:
_1	79.6 cm ³	53.90 g	.677 g/cm ³
_2	53.1 cm ³	34.50 g	.650 g/cm ³
_3	33.1 cm ³	22.00 g	.665 g/cm ³
_4	22.4 cm ³	13.60 g	.607 g/cm ³
_5	14.0 cm ³	9.40 g	.671 g/cm ³



Sep 7 - 9:21 AM

1) ID variables

time is independent

What you change (control)

distance is dependent

What changes as a result

2) Determine the scale

range: x: 0 - 79.6 cm³
 y: 0 - 53.9 g

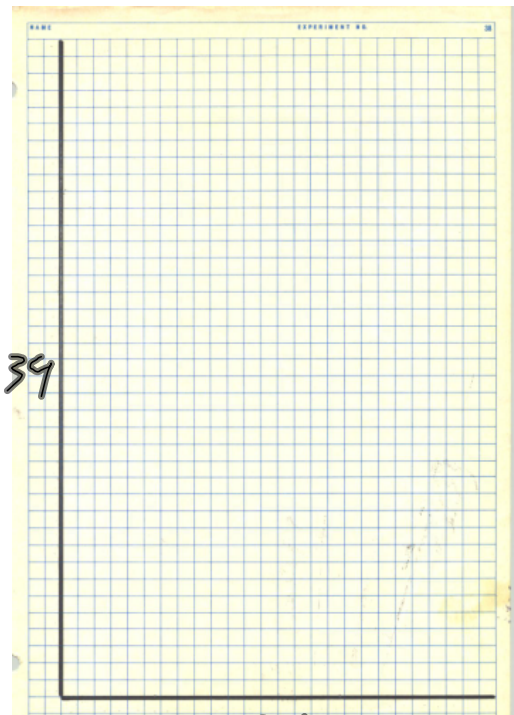
of boxes ~~range~~

3.06 \rightsquigarrow 4 or 5 cm³/box
 "x" 26 $\overline{79.6}$

1.38 \rightsquigarrow 1.5 or 2 g/box
 "y" 39 $\overline{53.9}$ mm

either drop last data point or extend graph!

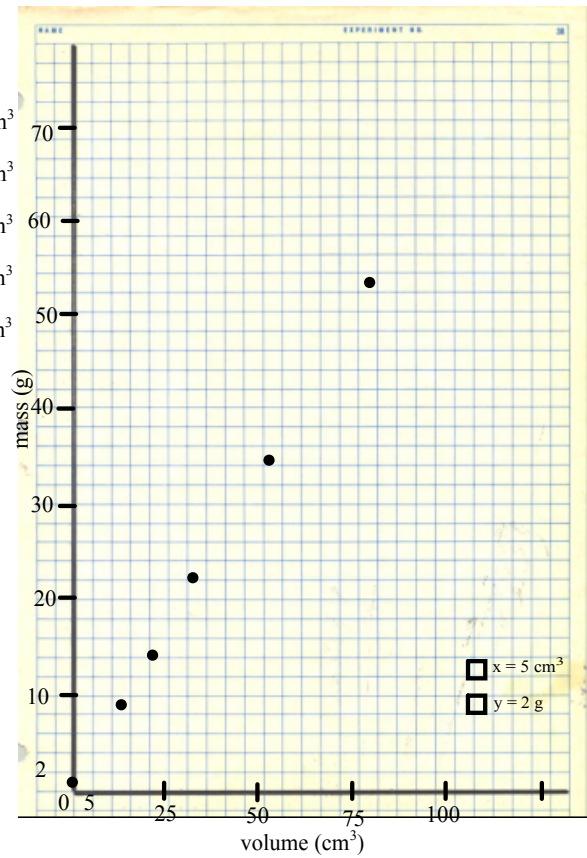
Dependent Variable (ordinate)



Sep 7 - 9:19 AM

block: volume: mass: density:

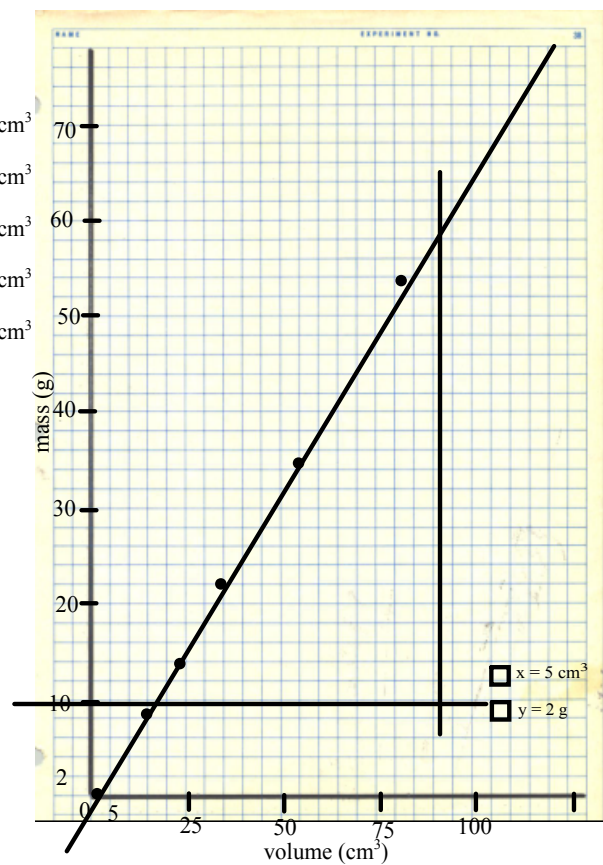
__1	79.6 cm ³	53.90 g	.677 g/cm ³
__2	53.1 cm ³	34.50 g	.650 g/cm ³
__3	33.1 cm ³	22.00 g	.665 g/cm ³
__4	22.4 cm ³	13.60 g	.607 g/cm ³
__5	14.0 cm ³	9.40 g	.671 g/cm ³



Sep 9-7:16 AM

block: volume: mass: density:

__1	79.6 cm ³	53.90 g	.677 g/cm ³
__2	53.1 cm ³	34.50 g	.650 g/cm ³
__3	33.1 cm ³	22.00 g	.665 g/cm ³
__4	22.4 cm ³	13.60 g	.607 g/cm ³
__5	14.0 cm ³	9.40 g	.671 g/cm ³



Sep 8-9:10 AM

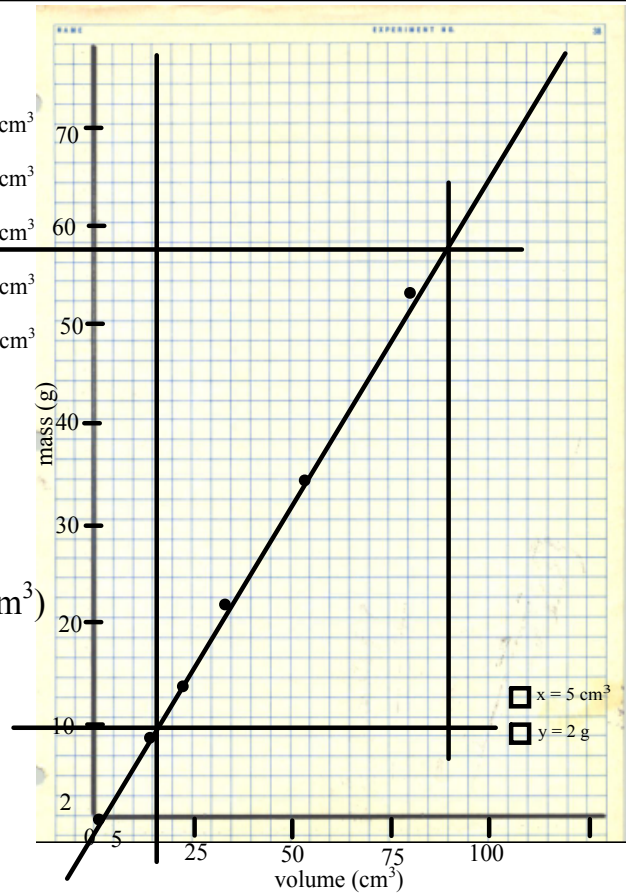
block: volume: mass: density:

__1	79.6 cm ³	53.90 g	.677 g/cm ³
__2	53.1 cm ³	34.50 g	.650 g/cm ³
__3	33.1 cm ³	22.00 g	.665 g/cm ³
__4	22.4 cm ³	13.60 g	.607 g/cm ³
__5	14.0 cm ³	9.40 g	.671 g/cm ³

$$m = \Delta y / \Delta x = \Delta y / \Delta x$$

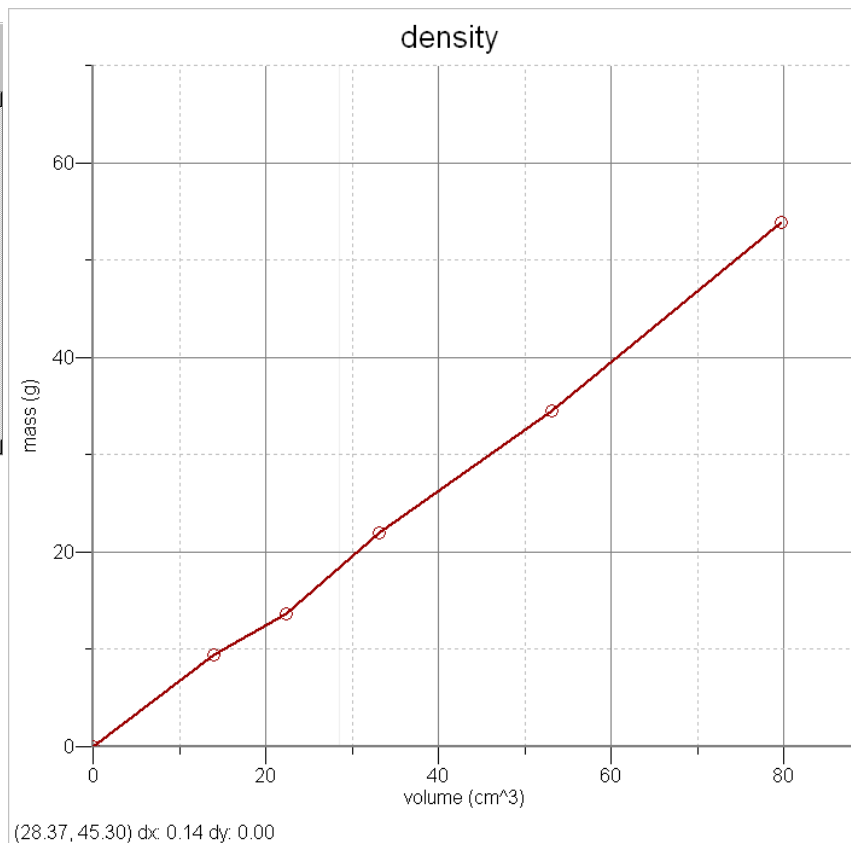
$$m = (58 \text{ g} - 10 \text{ g}) / (90 \text{ cm}^3 - 15 \text{ cm}^3)$$

$$m = 0.649 \text{ g} \cdot \text{cm}^{-3}$$

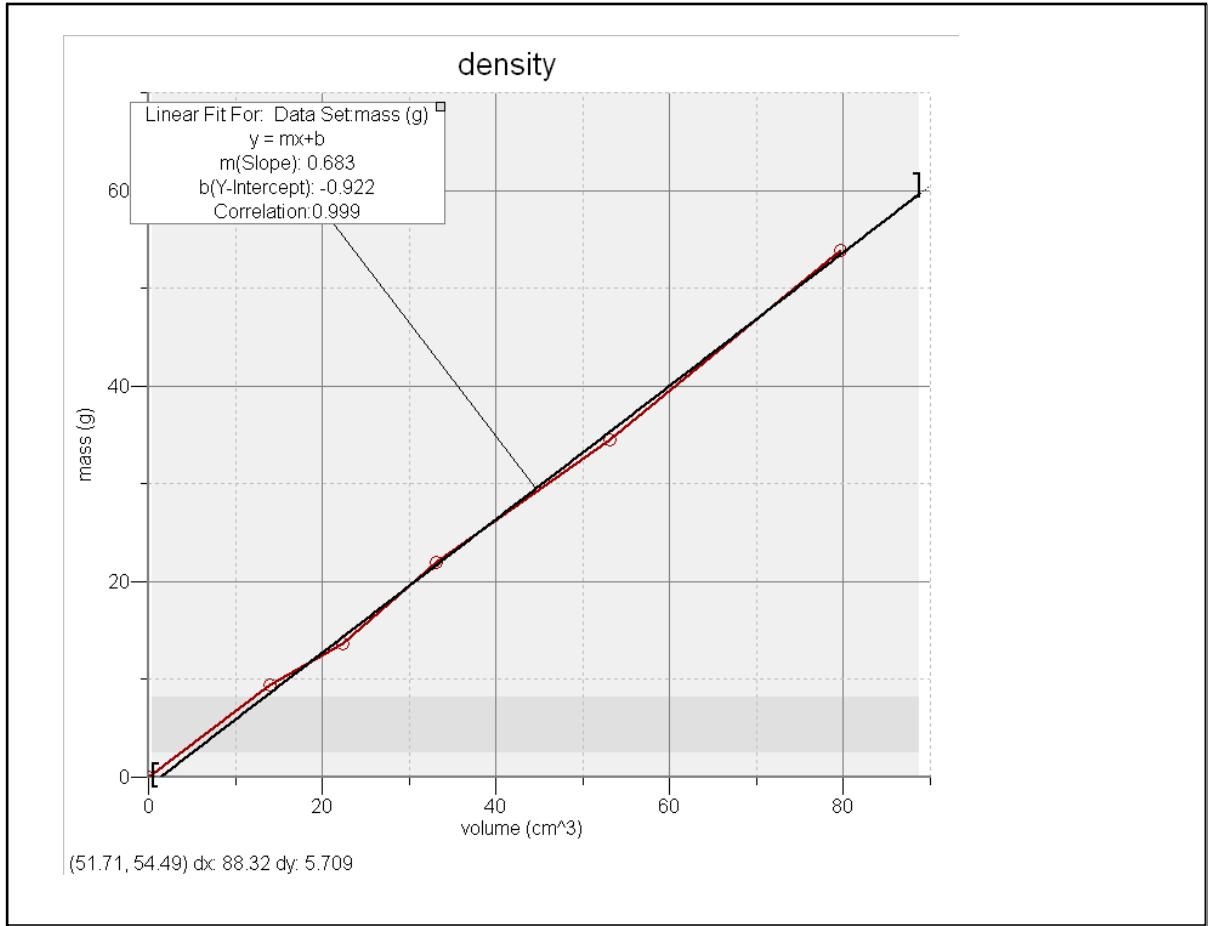


Sep 9-7:15 AM

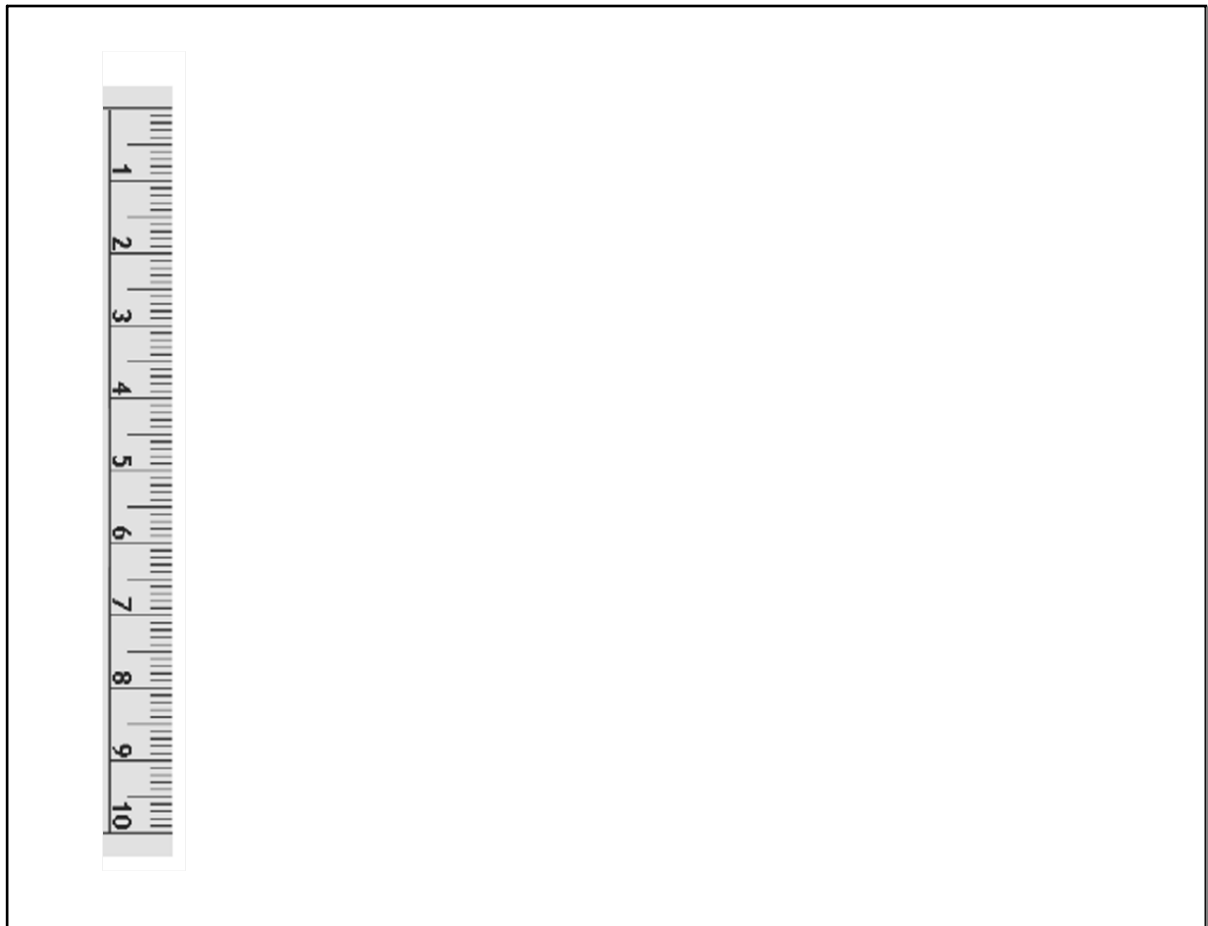
Data Set		
	volume (cm ³)	mass (g)
1	0.0	0.0
2	14.0	9.4
3	22.4	13.6
4	33.1	22.0
5	53.1	34.5
6	79.6	53.9
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		



Sep 8-8:54 AM



Sep 8-9:09 AM



Sep 8-7:29 AM