

RoundingAdd/subtRule: least # after

$$3.\underline{1}m + 6.\underline{92}m$$

$$\begin{matrix} (1) & & (2) \\ = 10.02m \\ (1) \end{matrix}$$

$$= \underline{10.0m}$$

mult/divRule: 2 after

$$3.1m \times 6.92m$$

$$= 21.452m^2 \quad] m \cdot m$$

$$= \underline{21.45m^2}$$

Measurements

Balance

2.1 g

3.2 mL mass

35°C

2.1 m

Parts

Quantity	Unit	Label
Number	System Measure	of what?
2.00	g	CaCl ₂

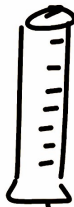
Equipment



Beaker



Flask



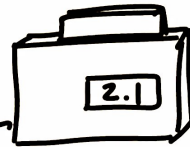
grad. cylinder

Measure V



Thermometer

Temp



Mass

Weight



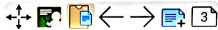
Stirring Rod



Scoopula



funnell



Measurement Techniques

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Minicus

Measure

Bottom



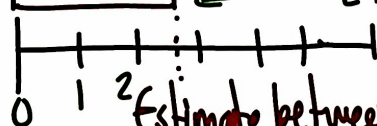
Table



level
w/ cylinder



2.8



Estimate between lines



5. $D = \underline{\hspace{2cm}} \text{ g/mL}$
 $m = 456.2 \text{ g} \quad V = 620.0 \text{ mL}$

$$D = \frac{m}{V} = \frac{456.2 \text{ g}}{620.0 \text{ mL}} = \underline{0.74 \text{ g/mL}}$$

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$$D = \frac{m}{V}$$

$$m = D \cdot V$$

$$V = \frac{m}{D}$$

b. $m = \underline{\hspace{2cm}} \text{ g}$
 $D = 1.20 \text{ g/mL} \quad V = 203.0 \text{ mL}$

$$m = D \cdot V$$

$$m = 1.20 \text{ g/mL} \cdot 203.0 \text{ mL}$$

$$m = \underline{243.6 \text{ g}}$$

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$$D = \frac{m}{V}$$

$$m = D \cdot V$$

$$V = \frac{m}{D}$$

7. $V = \underline{\hspace{2cm}} \text{ mL}$

$D = 0.620 \text{ g/mL} \quad m = 40.5 \text{ g}$

$$V = \frac{m}{D} = \frac{40.5 \text{ g}}{0.620 \text{ g/mL}}$$

$V = \underline{65.32 \text{ mL}}$

$$D = \frac{m}{V}$$

$$m = D \cdot V$$

$$V = \frac{m}{D}$$

$V(\text{mL})$	$m(\text{g})$
X	Y
15	8.4
30	17.3
45	27.2
60	39.4
75	47.2
90	56.2

