

THAT'S RIGHT, THE METRIC SYSTEM (LAB ANSWERS)

DISTANCE

1. **Mr. Mathot's** height using the meter stick (*your answers will vary*):

Millimeters	Centimeters	Meters	Kilometers	Feet
1800 mm	180 cm	1.8 m	.0018 km	6 ft

2. Arm span = 190 cm, 1900 mm, 1.9 m, .0019 km
3. Table Length = 120 cm, 1200 mm, 1.2 m, .0012 km
Table width = 75 cm, 750 mm, .75m, .00075 km

MASS

0. Yes, I zeroed the balance.

1. Your science **WORKBOOK** weighs about:

Milligrams	Centigrams	Grams	Kilograms
302,000 mg	30,200 cg	302 g	.302 kg

2. Pencil (brand new) = 6 g, 6000 mg, 600 cg, .006 kg
3. 8 large paper clips have a mass of:

Grams	Milligrams	Centigrams	Kilograms
11 g	11000 mg	1100 cg	.011 kg

1 Paper clip = 1400 mg or 1.4 g

VOLUME

0. You take the reading at the **BOTTOM** of the curve (**meniscus**).

1. Plastic container = 6840 cm³ (Length = 30 cm, Width = 19 cm, Height = 12 cm)
2. Water Bottle:

Milliliter	Centiliters	Liters
265 ml	26.5 cl	.265 l

3. Marble = 5 ml (large marble) or 2 ml (small marble)

TEMPERATURE

1. Water = 20-24°C (+/- 1°C).
2. Thumb = 15°C to 35°C
3. Air temperature in the room: 20⁰-24C (+/- 1°C).

(*Why is there a range in temperatures for the answers?*)

TIME

1. **Mr. Mathot** can keep eyes open for 15.51 seconds (*your answers will vary*).
2. Average of 10 trials: .12 s, .11 s, .10 s, .11 s, .10 s, .11s, .14s, .12s, .17s, .12s
Average of 10 trials = .12 seconds
3. 50 minute class = 3000 seconds or .83 hrs or 5/6 hours