

Measurement Booklet last page.

1 a) $17.65 \pm 0.01 \text{ cm}$ b) $11.0 \pm 0.1 \text{ cm}$ c) $106.2 \pm 0.2 \text{ cm}$ d) $1.5 \pm 0.1 \text{ cm}$

e) $124.631 \pm 0.001 \text{ cm}$

2 a) 3 b) 5
c) 5 d) 2
e) 3 f) 3
g) 4 h) 4
i) 4 j) 4

3 a) 14.45 ± 0.05
b) 21.49 ± 0.04
c) 123.71 ± 0.04
d) 0.00458 ± 0.00005

4 a) 10, 14 b) 869, 81
c) 9.1, 9.7 d) 123.1, 125.5
e) 0.00036, 0.00054 f) 0.000, 0.006

5 a) 4.9549 b) 4.955
c) 4.95 d) 5.0
e) 0.0051 f) 95100
g) 0.4 or 4×10^{-1} h) 0.00595

6 a) 3.57×10^4 b) 5.17×10^{-3} c) 4.51×10^7 d) 1.75×10^5 e) -5.47×10^{-1}

7 a) 6.3 b) 0.00024
c) 1.33 d) 130
e) 3×10^{14} f) 5.11×10^5
g) 202 h) 90
i) 20 j) 0.0001
k) ~~0.0001~~ 2 l) 2.2×10^{-6}

8. a) 12.1 b) 22.0
c) 0.09 d) 0.002
e) 0.322 f) 4.062×10^4 OR 40621.1000
g) 521.2600 5.2126×10^3 h) ~~76640.0~~ ^{79700.0} OR 8.0×10^4
i) 0.0 OR 5.3×10^{-5} j) 484.300 OR 4.84×10^2
k) 0.00000 OR 1.15600×10^{-8} l) 4205.91 OR 4.21×10^3
m) 95.00 n) 0.0~~1~~ OR 5.93×10^{-3}

9. $x_2 = 80$ $x_1 = 20$ $y_2 = 37$ $y_1 = 21$

$$m = \frac{37 - 21}{80 - 20} = \frac{16}{60} = 0.267$$

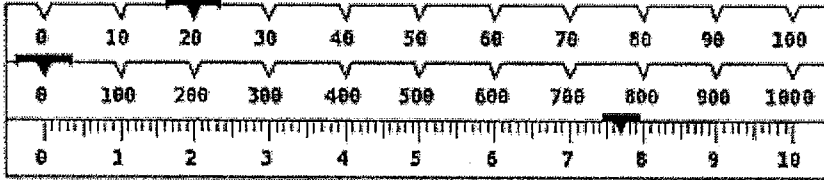
$$y = 0.267x + 16$$

10. $y = 0.267x + 16$
 $80 = 0.267x + 16$
 $64 = 0.267x$
 $x = \text{age} = 240$ yrs old.

11 a) $40.0 \text{ Acres} \times \frac{4046.856459 \text{ m}}{1 \text{ Acres}} = 161874.256 \text{ m}^2$ 2

b) $35.8 \text{ Furlongs} \times \frac{0.125 \text{ miles}}{1 \text{ furlong}} \times \frac{1609.344 \text{ m}}{1 \text{ mile}} = \text{~~7201.8144 m~~ } 7201.8144 \text{ m}$

c) $0.56 \text{ Watts} \times \frac{1.00 \times 10^7 \text{ Ergs/sec}}{1 \text{ Watt}} = 5600000 \text{ Ergs/sec.}$

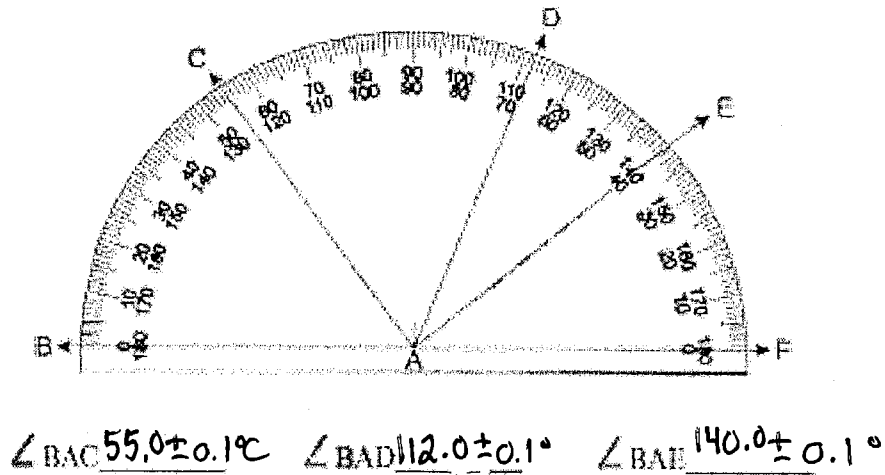
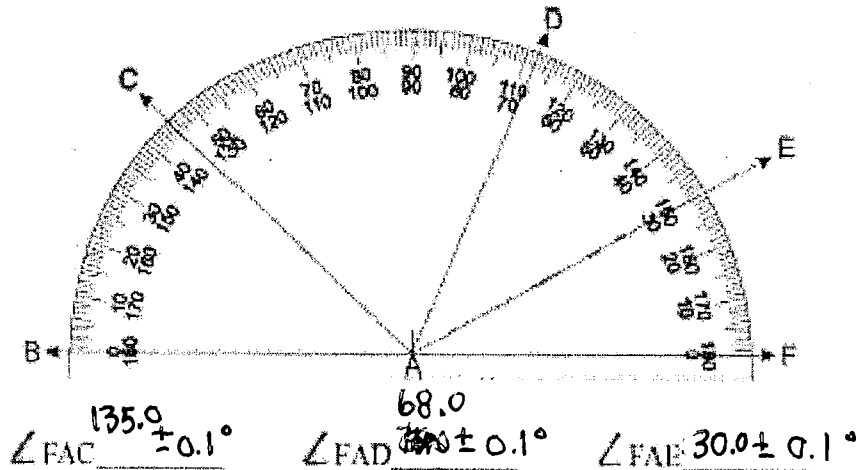


27.70 ± 0.01 grams

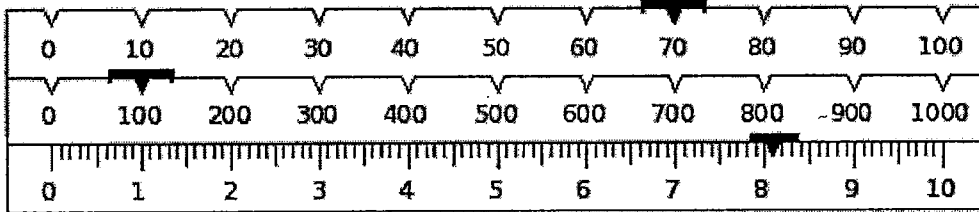
Name _____ Date _____

Protractors

Find the measure of each angle in degrees

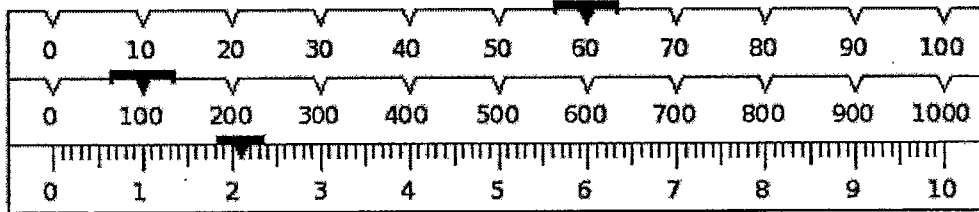


Triple Balance (gram)
Mass reading in air



$178.10 \pm 0.01 \text{ g}$

Mass reading in water



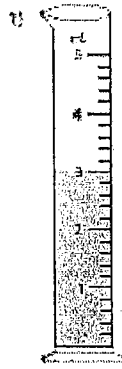
$162.10 \pm 0.01 \text{ g}$

Name: _____

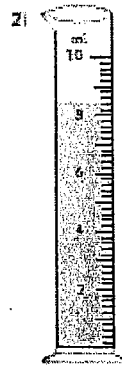
Score: _____

Reading Graduated Cylinder

Write the reading shown by each graduated cylinder.



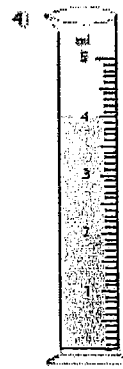
_____ mL



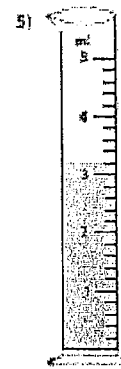
_____ mL



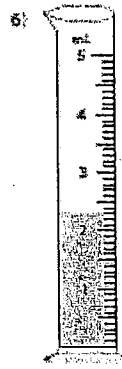
_____ mL



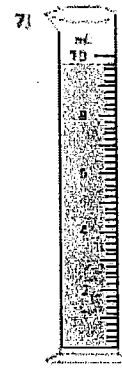
_____ mL



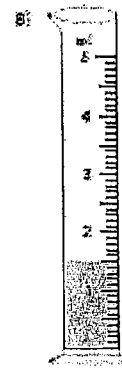
_____ mL



_____ mL



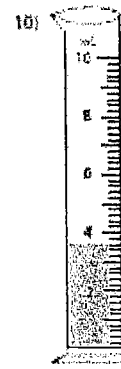
_____ mL



_____ mL



_____ mL



_____ mL

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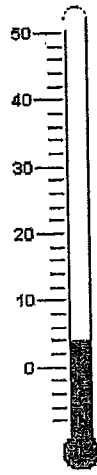
- 1) 3.00 ± 0.02 mL
- 2) 8.40 ± 0.02 mL
- 3) 2.81 ± 0.02 mL
- 4) 4.01 ± 0.01 mL
- 5) 3.30 ± 0.02 mL

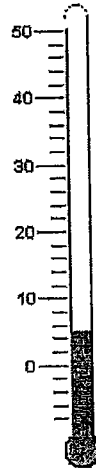
- 6) 2.30 ± 0.01 mL
- 7) 9.80 ± 0.02 mL
- 8) 1.49 ± 0.01 mL
- 9) 6.00 ± 0.02 mL
- 10) 3.60 ± 0.02 mL

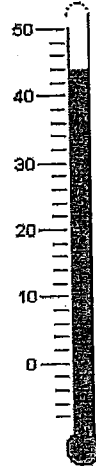
Name : _____ Score : _____
 Teacher : _____ Date : _____

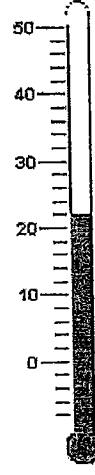
Find the temperature for each thermometer.

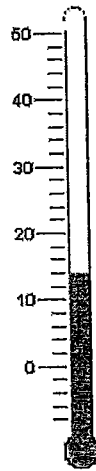




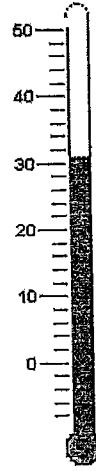


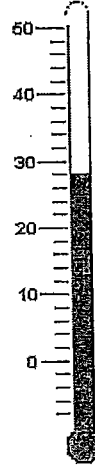


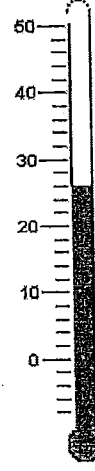












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- 1) ~~18.5~~ ^{19.0} ± 0.2°C
- 2) 4.0 ± 0.2°C
- 3) 5.0 ± 0.2°C
- 4) 44.0 ± 0.2°C
- 5) 22.0 ± 0.2°C

- 6) 14.0 ± 0.2°C
- 7) 40.0 ± 0.2°C
- 8) 31.0 ± 0.2°C
- 9) 28.0 ± 0.2°C
- 10) 26.0 ± 0.2°C