

## Routine Units Practice #1

1. What do we call the instruments on the right? .....



2. The cucumber weighs "123.3". What will the units be? .....

3. What error would we expect with a reading of 123.3? .....

4. What is boiling point of water in standard units? .....

5. How wide is a typical door? .....

6. What is 35 m in km? .....

7. What is 8000 m in km? .....

8. What is 0.44 kg in g? .....

9. What is 10 hectares in m<sup>2</sup>? .....

10. A GPS system is accurate to  $\pm 10$  metres. The distance between two points is calculated at 8345 metres by GPS. What is the error for the distance? .....

11. What are the units on the tape measure to the right? .....

12. What is 190 seconds in minutes? .....



13. What is 5.2 hours in seconds? .....

14. What is 40.5 minutes in (decimal) hours? .....

15. How long is it from 10:20 a.m. to 3:10 p.m.? .....

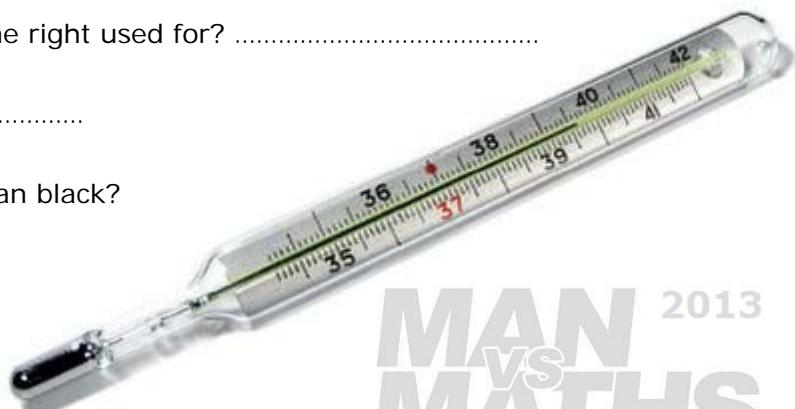
16. What is five to six in the afternoon in 24 hour time? .....

17. What is 1623 in normal time? .....

18. What is the type of thermometer on the right used for? .....

19. What is the reading? .....

20. Why is the point "37" in red, rather than black?



## Answers: Routine Units Practice #1

**Do not leave out the units!**

1. What do we call the instruments on the right? **(kitchen) scales**
2. The cucumber weighs "123.3". What will the units be? **grams**
3. What error would we expect with a reading of 123.3?  **$\pm 0.05$  g, so 123.25 to 123.35**
4. What is boiling point of water in standard units? **100°C**
5. How wide is a typical door? **around 70 cm ( $\pm 10$  cm)**
6. What is 35 m in km? **0.035 km**
7. What is 8000 m in km? **8 km**
8. What is 0.44 kg in g? **440 g**
9. What is 10 hectares in m<sup>2</sup>?  **$10 \times 100 \times 100 = 100,000 \text{ m}^2$**
10. A GPS system is accurate to  $\pm 10$  metres. The distance between two points is calculated at 8345 metres by GPS. What is the error for the distance?  **$\pm 20$  m**  
**(both measurements might be out by 10, either both above or both below)**
11. What are the units on the tape measure to the right? **m and cm (and also inches)**
12. What is 190 seconds in minutes?  **$190 \div 60 = 3.167 \text{ min } (3\frac{1}{6} \text{ min})$**
13. What is 5.2 hours in seconds?  **$5.2 \times 60 \times 60 = 18,720 \text{ s}$**
14. What is 40.5 minutes in (decimal) hours?  **$40.5 \div 60 = 0.675 \text{ hours}$**
15. How long is it from 10:20 a.m. to 3:10 p.m.? **4 hours 50 minutes (290 minutes)**
16. What is five to six in the afternoon in 24 hour time? **17:55 or 1755 (hours)**
17. What is 1623 in normal time? **4:23 p.m. (twenty-three after four in the afternoon)**
18. What is the type of thermometer on the right used for?  
**reading body temperatures (by T range)**
19. What is the reading? **about 39.6°C**
20. Why is the point "37" in red, rather than black?  
**It shows normal body temperature.**

