

Name: _____

_____ / 12

Chapter 1.2 Homework
Conceptual Physics

Parent Signature: _____

Reviewing Concepts

14. Why are units important when measuring quantities? (1)

15. What is the current name given to the metric system? Name two reasons for using this system in place of the English System. (1)

16. Define the word *time* as it is used in physics calculations. (1)

17. On which axis of a graph is time generally placed? (0.5)

18. What are the meanings of the following terms, as applied to science measurements? (1.5)

accuracy –

precision –

resolution –

Solving Problems

3. Order the following lengths from shortest to longest. (1)

a. 400 mm b. 22 km c. 170 m d. 3.3 cm

4. Convert: (2)

a. $3 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

b. $1.5 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

c. $110 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

d. $2.5 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$

5. Convert: (2)

a. $3 \text{ min} = \underline{\hspace{2cm}} \text{ s}$

b. $200 \text{ s} = \underline{\hspace{2cm}} \text{ min}, \underline{\hspace{2cm}} \text{ s}.$

c. $2.00 \text{ days} = \underline{\hspace{2cm}} \text{ min}$

d. $1,000 \text{ min} = \underline{\hspace{2cm}} \text{ hr}$

7. Luis rides his new bike while his brother records his position and time. They create the data table shown below.

Position (m)	0.00	105	270	400	540	600
Time (s)	0.00	30	60	90	120	150

a. Name the dependent variable and the independent variable. (1)

b. On which axis would each variable be placed on a graph? (1)