1. How many significant digits are in the following measurements?
a. $1300 \mathrm{~m} \quad 2$
b. 3.20 g 3
c. $\quad 0.00065 \mathrm{~km}$
d. 20 Fir trees infin: fe
e. 30 ml

1
f. $30 . \mathrm{ml}$ $\qquad$
g. 30.0 ml 3
2. Write the term that corresponds to the following definitions:
a. Describes evidence that documents only what actually happened as exactly as possible
objective
b. Variable that you (the experimenter) change in an experiment

c. Meaningful digits in a measured quantity

d. Application of science to meet human needs and solve problems

e. Amount of space between 2 points

f. Smallest interval that can be measured
resolution
g. Measuring system used for everyday measurements in the U.S.

h. Process of learning - begins with hypothesis \& proceeds to prove or change it by comparing it to scientific evidence
scientific method
i. Figure something out from known facts using logical thinking deduce
j. Evidence than can be seen independently by others if they repeat the same experiment or observation in the same way

k. Professional who uses scientific knowledge to create or improve inventions to solve problems or meet human needs


1. Group of variables that are related

m . Variable kept constant in an experiment

n . Determination of the amount of something measurement
o. How close together or reproducible repeated measurements are

p. How close a measurement is to the accepted or true value

q. Fixed amount of something
cunt
r. Working model of a design that can be tested

s. Situation specifically set up to investigate relationships between variables

t. Factor that affects how an experiment works
Variable
u. Each time an experiment is tried
rial
v. Possible explanation of observations - can be tested by comparison to scientific evidence

w. Scientific explanation supported by a lot of evidence collected over a long period of time

x. Describes evidence that documents only what actually happened as exactly Las possible
y. Process of learning that starts with asking questions, proceeds by seeking answers to questions

$$
\begin{aligned}
& \text { to questions } \\
& \text { Sccenfider method }
\end{aligned}
$$

z. Theory that's been tested many times without any contradictions

aa. Measured distance

bb. Basic SI unit of length

cc. Basic SI unit of mass

dd. Basic SI unit of liquid volume
liter
ee. Visual representation of data

ff. 1 variable increases with an increase in another variable

gq. 1 variable decreases when another variable increases
inverse relationship
kN. 1 variable decreases when another variable increases
4. What type of graph is illustrated below? What kind of data is shown in this type of graph?


5. What type of graph is illustrated below? What kind of data is shown in this type of graph?


School Attendance and Science Grades (Title)


[^0]Students (Label)
6. What type of graph is illustrated below? What kind of data is shown in this type of graph?
lime graph - shows how

Value of Sarah's Car

7. What type of graph is illustrated below? What kind of data is shown in this type of graph?
scatter plot-shrows if thur's a

8. Make the following conversions:
a. $8550 \mathrm{~mm}=$ $\qquad$ m
b. $03 \mathrm{~cm}=$ 3 mm
c. $9450 \mathrm{~g}=$ 9.45 kg
d. $800 \mathrm{mg}=$ $\qquad$
e. $150 \mathrm{~mL}=$ $\qquad$
0.15 L
f. $0.09065 \mathrm{~km}=$ $\qquad$ 650 mm
9. Which is largest? (circle the correct answer)

10. Are scientific theories unchangeable? Why or why not?

$$
\begin{aligned}
& \text { No - cam be change if wees } \\
& \text { evidences requires it. }
\end{aligned}
$$

11. What is the most important tradition in science?
truthful reporting

[^0]:    $\square$ School Attendance

    - Science Grade

