

PHYSICS INTRO:

MEASUREMENT: READ 1-11, 1-2

Sec Review 1-4 Page 19

- 1) Which SI units would you use for the following measurements?
- A) the length of a swimming pool
 - B) the mass of the water in the pool
 - C) the time it takes a swimmer to swim a lap
- 2) Convert the following measurements as indicated.
- A) 6.20 mg to kg
 - B) 3×10^{-9} sec to ms
 - C) 88.0 km to mm
- 3) The following students measure the density of a piece of lead three times. The real density of lead is actually 11.34 g/cm^3 . Considering all the results, which person's results were accurate? Which were precise? Were any both accurate and precise?
- A) Rachel: 11.32 g/cm^3 , 11.35 g/cm^3 , 11.33 g/cm^3 .
 - B) Danaiel: 11.43 g/cm^3 , 11.44 g/cm^3 , 11.42 g/cm^3 .
 - C) Leah: 11.55 g/cm^3 , 11.34 g/cm^3 , 11.04 g/cm^3 .

Math TEST:

ALL:

solve for x: $Y = Gm/x + r$

the shape of a quadratic relationship

a) $y = 1/x$

the equation of a linear relationship

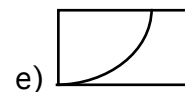
b. straight line

the shape of the graph of a constant increase

c) $y = mx + b$

the equation of a quadratic relationship

d. $y = ax^2 + bx + c$



If a is acceleration (m/s^2), v is change in velocity (m/s), x is change in position (m), and t is the time interval (s), which equation is dimensionally correct?

a) $t = x/a$

b) $t = v^2/x$

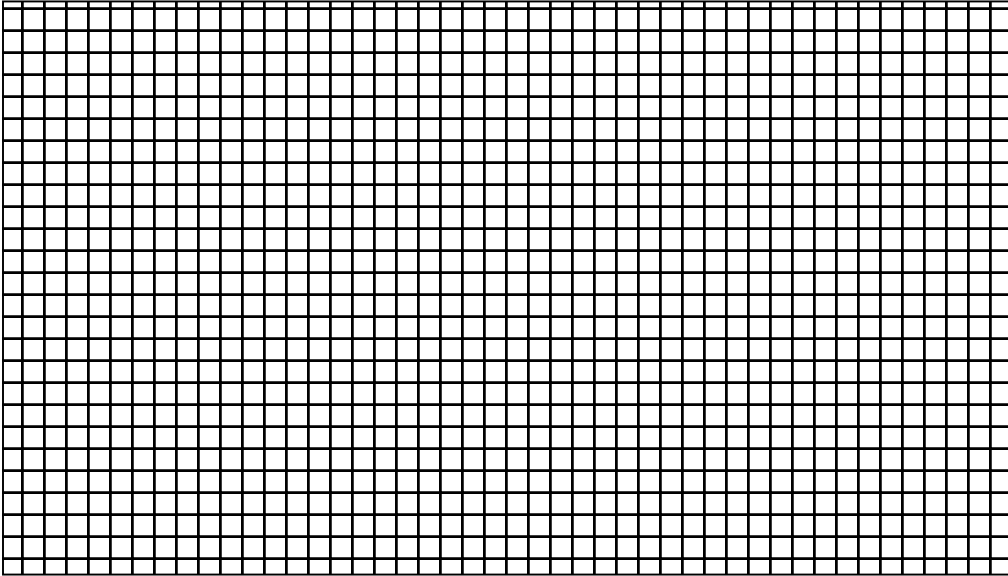
c) $v = a/t$

d) $t^2 = x/a$

HONORS:

Plot these points and find a best curve fit:

| X | Y |
|----|------|
| 2 | 11 |
| 3 | 16 |
| 6 | 26 |
| 8 | 35 |
| 10 | 43.5 |



Solve these equations for T (T not zero)

$$D = VT + \frac{1}{2} AT^2 \quad A = -V/T \quad V^2 = -2AD \quad A = 10$$