**Dimension Worksheet:**

**Definitions:**  Use the following definitions in order to complete this worksheet.

v=d/t a=Δv/t F= ma E= ½ mv2

1. What are the dimensions and proper physics units of each of the quantities above?

2. What are the dimensions of the following?:

a. Ft b. at c. E/d d. F2E

3. Use dimension to test the possible validity of each of the formulas below:

a. v=v0+at b. d=v0t+at c. E=Ft F=E/d

4. Use the correct equation below to determine the dimension of the quantity G.



5. What would be the proper physics units for the following?

v2 /r (r=radius)

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6. Can the following quantities be added? (Use dimension to explain)

a. Ft + mv b. h + vt c. ma + mgh

7. Is frequency dimensionally equivalent to period?

8. Complete the addition shown if possible. If not possible explain why.

a. 12m + 365cm + 0.051km

b. 226N + 12kg(9.8m/s2)

c. 1.0kWh + 520000J

d. 35J + 250Nm

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