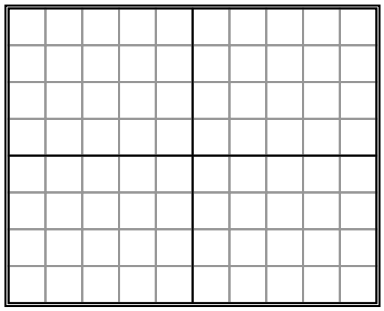
Name: _____ **Date of Lab:** _____

Lab Manual Steps:



8) Draw an excellent copy of your scope screen here →

9) Your voltage scale: _____ V_{pp}: _____ divs V_{pp}: _____ V

10) Your time scale: _____ T: _____ divs T: _____ ms

f_{calc}: _____ Hz $f_{Function\ Generator}$: _____ Hz

11) "Cursors": V_{pp}: _____ V

12) "Cursors": T: _____ ms f: _____ Hz

13) Your new voltage scale: _____ V_{pp}: _____ divs V_{pp}: _____ V

Your new time scale: _____ T: _____ divs T: _____ ms

f_{calc}: _____ Hz $V_{cursors}$: _____ V $f_{cursors}$: _____ Hz

14) "Measure": V_{pp}: _____ V T: _____ ms f: _____ Hz

18) For the same signal, "Measure" on the scope: V_{RMS}: _____ V

Multimeter, set to ACV: V_{RMS}: _____ V f: _____ Hz

Convert from multimeter V_{RMS}: V_{pp}: _____ V

19) $f_{min} \approx$ _____ Hz , and was limited by which device: (Scope) (Function Generator)

$f_{max} \approx$ _____ Hz , and was limited by which device: (Scope) (Function Generator)

20) $V_{PP\text{-}min} \approx$ _____ mV , and was limited by which device: (Scope) (Function Generator)

$V_{PP\text{-}max} \approx$ _____ mV , and was limited by which device: (Scope) (Function Generator)

21) Purpose of "duty cycle: knob: _____

_____

22) Using BNC: V_{pp}: _____ V f: _____ Hz t_{upper}: _____ ms t_{lower}: _____ ms

23) Using Banana wires: T_{Bounce}: _____ ms

25) Disconnected banana wires: f: _____ Hz

What is the "real life" application that created this frequency? _____

(more on other side…)

Lab Practical:

First Mystery signal: Name: (A) (B) (C) (D)

f = _____

V_{pp} = _____

Shape = (sinusoid) (triangle)(square)

Duty Cycle = _____

DC_{offset} = _____

Second Mystery signal: Name: (A) (B) (C) (D)

f = _____

V_{pp} = _____

Shape = (sinusoid) (triangle)(square)

Duty Cycle = _____

DC_{offset} = _____