



# Week 2 - Session 4

CW Academy

- Questions on h/w & on the air activities?
  - Short Story was on Sending!
- Contests this weekend:
  - CQ 160m CW
  - Winter Field Day
- Tonight: Cut Numbers



# Cut Numbers

- Acceptable:
  - 0 → T
  - 1 → A
  - 9 → N
- Creative (Avoid Using These!):
  - 0 → the letter O
  - 5 → E
  - 2 → U
  - 8 → D
  - 3 → V      NO!!!!!      Sound too much like 4
  - 7 → B      NO!!!!!!      Sounds too much like 6
- CQ WPX (e.g. Morse Runner):
  - 599      →      ENN      (signal report)
  - 1920      →      AN2T      (serial number)
  - Some ops are very creative!



# Cut Numbers (cont.)

CW Academy

- In the CWTs and many of the larger contests (e.g. CQ WW, Intl DX), you will hear ops use abbreviations for numbers in the exchange

-	<b>599</b>	→	<b>5NN</b> or <b>&lt;ENN&gt;</b>	(Dummy signal report)
-	<b>11</b>	→	<b>AA</b>	(CQ Zone 11 – Brazil – CQ WW)
-	<b>15</b>	→	<b>A5</b> or <b>AE</b>	(CQ Zone 15 – Italy - CQWW)
-	<b>100</b>	→	<b>1TT</b> or <b>ATT</b>	(100 Watts – International DX)
-	<b>99</b>	→	<b>NN</b>	(99 Watts – International DX)
-	<b>1000</b>	→	<b>K</b> or <b>KW</b>	(1 Kilowatt – International DX)
-	<b>1090</b>	→	<b>ATNT</b>	(N4FP's CWT Member No. - CWT)
-	<b>2198</b>	→	<b>UAND</b>	(N5OT CWT Member No. - CWT)



# Cut Numbers (cont.)

- Other than the dummy signal report (5NN or ENN), I don't like this practice and advise against it
  - Eliminates the inherent redundancy which is very helpful in the presence of QRM and QSB
  - Generally leads to more “fill” requests (repeats)
  - However, others use it so you need to understand it!
- I find the easiest way to deal with a cut number is to log it and unwind the actual meaning later
- ~~One place where a cut number can be somewhat useful is~~ if you enter a contest late, you can send a leading “T” in your serial number to alert the other station to this:
  - 4            →        T4    or    TT4
- I advise against sending leading zeros for numbers above 9
- Don't send TT7 or T25 in MST, just 7 or 25 – very few ops get over 100 Q's in the MST!
- Never use cut numbers on RTTY – actually makes transmissions longer and more error-prone!



# CW Math Drill

CW Academy

- 1 plus 2
- Is 3 R 3 times 5
- Is 15 R 15 div 3
- ? 15 div 3 Is 5 R 5 minus 1
- Is 6 NO 5 minus 1 Is 4 R ...
- Etc.
- Use ? Or AGN? for repeats and R to confirm answer
  - Try not using “voice” since you can’t do that on the air
- No Cut Numbers this time - We’ll do that next time