Table 9: s=32

| • | • PPT | r | r²/2 | s | t | s+t $\sqrt{W}$ | $(s+t)^2$ W | $(s^2+t^2)$ U | c | U/c p | *next c | *next p | *next t |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| • | **9-40-41** | 8 | 32 | 1 | 32 | 33 | 1089 | 1025 | 41 | 25 | | | |
| | **20-48-52** | 16 | 128 | 4 | 32 | 36 | 1296 | 1040 | 52 | 20 | | | |
| • | **33-56-65** | 24 | 288 | 9 | 32 | 41 | 1681 | 1105 | 65 | 17 | | | |
| | **48-64-80** | 32 | 512 | 16 | 32 | 48 | 2304 | 1280 | 80 | 16 | | | |
| • | **65-72-97** | 40 | 800 | 25 | 32 | 57 | 3249 | 1649 | 97 | 17 | | | |
| | **80-84-116** | 48 | 1152 | 32 | 36 | 68 | 4624 | 2320 | 116 | 20 | | | |
| • | **88-105-137** | 56 | 1568 | 32 | 49 | 81 | 6561 | 3425 | 137 | 25 | 377 | 137 | 225 |
| | **96-128-160** | 64 | 2048 | 32 | 64 | 96 | 9216 | 5120 | 160 | 32 | | | |
| • | **104-153-185** | 72 | 2592 | 32 | 81 | 113 | 12769 | 7585 | 185 | 41 | 457 | 185 | 289 |
| | **112-180-212** | 80 | 3200 | 32 | 100 | 132 | 17424 | 11024 | 212 | 52 | | | |
| • | **120-209-241** | 88 | 3872 | 32 | 121 | 153 | 23409 | 15665 | 241 | 65 | 545 | 241 | 361 |
| | **128-240-272** | 96 | 4608 | 32 | 144 | 176 | 30976 | 21760 | 272 | 80 | | | |
| • | **136-273-305** | 104 | 5408 | 32 | 169 | 201 | 40401 | 29585 | 305 | 97 | 641 | 305 | 441 |
| | **144-308-340** | 112 | 6272 | 32 | 196 | 228 | 51984 | 39440 | 340 | 116 | | | |
| • | **152-345-377** | 120 | 7200 | 32 | 225 | 257 | 66049 | 51649 | 377 | 137 | 745 | 377 | 529 |
| **Δ** | • **a=Δ16 [a (all)=Δ8] b=c=(all)= $\Delta X_n$** | Δ8 [a (all)=Δ4] | $\Delta 32X_n$ (all) | | $\Delta X_n$ (all) t=$7^2,8^2,9^2$, …(all) | $\Delta X_n$ (all) | | | $\Delta X_n$ (all) | $\Delta X_n$ (all) | $\Delta X_n$ (all) | $\Delta X_n$ (all) | $(X_n)^2$ (all) |
| | **n=23,25,27,…** | | **n=15,17,19 …** | | **n=15,17,19 …** | **n=15,17,19 …** | | | **n=23,25,27, …** | **n=7,9,11,…** | **n=39,41,43, …** | **n=23,25,27, …** | **n=15,16,17, …** |
| **Δ=difference** | | **$a_p$= previous** | | **a= current** | | **$a_n$= next** | | | | | | | |

**Summary——>**

Every **s=32** PPT can be generated from the initial **3-4-5** PPT. Switching the "***s***" & "***t***" pair-sets gives the **s=2,8,18,32**,… EVEN PPTs and from the **s=2**, the ODD **s=9,25,49,81**,… can be generated the same way. ALL PPTs are related back to the **3-4-5** PPT! Disregard the grayed out rows of **s=1**,4,**9**,16.**25**,32 and all non-Primitive Pythagorean Triples (nPPT) except for the **r** and **r²/2** columns as they are shown to show how the specific **s=32** pattern is formed. Refer to **Table 3** (**s=2**) and **Table 5** (**s=8**) to see how the **s=32** PPTs are a derivative. Notice that the spacing between subsequent PPTs now skips not to the next PPT but to the third thereafter, i.e. every fourth one. If "c"=137, it's "**p**" value skips past the next 3 PPT to the one thereafter, e.i. to the "c"=377 row. This is a consistent pattern for all **s=32**. While **s=2** pointed to the next PPT row, **s=32** points to the fourth next row! As all subsequently larger **s-sets** will show, each has a similar skip pattern that is a consistent multiplier for that given **s-set**!

Another key pattern is that the "**t**" values for all PPTs follow a (**1**,4,**9**,16,**25**,36),**49**,64,**81**,100 (in **BOLD**) sequence — like that of the PD — skipping all the EVENS, those divisible by 4. An EVEN + ODD or ODD + EVEN pattern for "**a,b**" and "**a²,b²**" and "**s,t**" values holds true. Patterns described typically begin with the first **s=32** PPT row. Some pattern values also run through the other nPPT and/or **s≠32** rows. Notice the **s=32** pattern for PPTs runs **1** (BLUE)-1-**1** (BLUE)-1-**1** (BLUE),…