

Scanned with CamScanner

3	$a = 120 = 2mn$ $b = m^2 - n^2$ $c = m^2 + n^2$
	Since 120 = 2mn, then 60 = mn, so m and n are factor of 60. So the possible combinations of m and n are (60,1) a=120 b= 60²-1²=3599 c=60²+1²=3601 (30,2) a=120 b=30²-2²=896 c=30²+2²=904 (20,3) a=120 b=15²-4²=209 c=15²+4²=241 (15,4) a=120 b=15²-5²=119 c=12²+5²=169 (10,6) a=120 b=10²-6²=64 c=10²+6²=136 So the Pythagorean triples are (120,3599,3601) primitive because gcd (120,3599,3601)=1 (120,896,904) (120,391,409) primitive because gcd (120,391,409)=1 (120,119,169) primitive because gcd (120,209,241)=1 (120,64,136)

