

The multiple of 2 "unknown" Prime numbers:

$$85 = 5 * 17$$

$$\frac{1}{(85 * 3)} = \frac{1}{(0.0039215)} = 255$$

$$\frac{255}{(85 / 3)} = \frac{255}{(28.333333)} = 9$$

$$\sqrt{9} = 3$$

$$\frac{1}{(85 * 5)} = \frac{1}{(0.00235)} = 425$$

$$\frac{425}{(85 / 5)} = \frac{425}{(17)} = 25$$

$$\sqrt{25} = 5$$

$$17^2 = 289$$

$$425 - 289 = 136$$

$$136 / 17 = 8$$

$$17 / 8 = 2.125$$

$$\frac{1}{2.125} = 0.470588$$

$$0.470588 * 136 = 64$$

$$\sqrt{64} = 8$$

$$\frac{17}{136} = 0.125$$

$$\frac{8}{0.125} = 64$$

$$\sqrt{64} = 8$$

The last 2 calculations are loops. But it shows one thing. These calculations will always be a perfect square root. Thus finding the product of 2 Prime numbers is equivalent to this equation being used to find a perfect square. Yes other products will also have a perfect square, but it will be a decimal and not a whole number. So the idea is to find perfect roots below the product of 2 Prime numbers. We can easily find square roots and we know that this square root is less than the square root of the product. So the numbers we are looking for square root is less than the square root of 85 in this example.

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These are just some interesting relationships I found in between doing class work. I do not find some meaningful equation.

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The multiple of two "unknown" Prime numbers.

$$3.79424E6 = 2459 * 1543$$

and two non-Prime multiples

$$3.79424E6 = 2132 * 1779.66$$

$$\frac{1}{(3.79424E6 * 1543)} = 1 / 1.70808E-10 = 5.854551E9$$

$$5.854551E9 - (2459^2) = 5.85451E9$$

$$5.85451E9 / 2459 = 2.37839E6$$

The last step is actually to find the modulus of the two numbers.

Testing to see if 3 and 28.3333 are Prime multiples of 85:

$$\frac{1}{(85 * 3)} = \frac{1}{(0.0039215)} = 255$$

$$28.3333^2 = 802.778$$

$$255 - 802.778 = -547.778$$

$$-547.778 / 28.3333 = -19.3334$$

$$28.3333 / 19.3334 = -1.46551$$

$$\frac{1}{-1.46551} = -0.682355$$

$$-0.682355 * -547.778 = 373.779$$

$$\sqrt{373.779} = 19.3334$$

$$28.3333 / -547.778 = -0.51724$$

$$\frac{19.3334}{-0.51724} = -373.791$$

$$\sqrt{373.791} = 19.3337$$

$$17^2 = 289$$

$$425 - 289 = 136$$

$$136 / 17 = 8$$

$$17 / 8 = 2.125$$

$$\frac{1}{2.125} = 0.470588$$

$$0.470588 * 136 = 64$$

$$\sqrt{64} = 8$$

$$\frac{8}{0.125} = 64$$
