Andy's List Of Useful Numbers That Are Hard To Remember

Version 2.1 • Pulldown based on the ratio of 1001/1000

PULL DOWN numbers

23.976023976023976$\overline{023976}$ fps

29.97002997002997$\overline{002997}$ fps

99.900099900099$\overline{000999}$ % Speed

100.1 % Length

47952.047952047952$\overline{047952}$ Hz

44055.944055944055$\overline{944055}$ Hz

PULL UP numbers

100.1 % Speed

99.900099900099$\overline{000999}$ % Length

48048 Hz

44144.1 Hz

PAL → FILM numbers (25 → 24)

(4.0 % ⇔ 4.16$\overline{6666}$ %)

96.0 % Speed

104.16666666666$\overline{666666}$ % Length

48000 → 46080 Hz

44100 → 42336 Hz

FILM → PAL numbers (24 → 25)

104.16666666666$\overline{666666}$ % Speed

96.0 % Length

48000 → 50000 Hz

44100 → 45937.5 Hz

PAL → NTSC FILM numbers (25 → 23.976)

(4.095904$\overline{095904}$ % ⇔ 4.27083$\overline{333}$ %)

95.904095904095904$\overline{095904}$ % Speed

104.270833333333333$\overline{333333}$ % Length

48000 → 46033.966033966$\overline{033966}$ Hz

44100 → 42293.706293706$\overline{293706}$ Hz

NTSC FILM → PAL numbers (23.976 → 25)

104.270833333333333$\overline{333333}$ % Speed

95.904095904095904$\overline{095904}$ % Length

48000 → 50050 Hz

44100 → 45983.4375 Hz

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This document of numbers is "Praise Me Ware"...instead of not sending in a shareware contribution, you can praise me by saying aloud "I Praise Andy!". Alternately, this is "Curse Them Ware" where you curse loudly: "Damn the NTSC and the pulldown they rode in on!". If you fail to praise me (or curse them), then the unique copy protection scheme of this document will cause all the little ones and zeros in your computer to spill out via the firewire port, creating a big mess on the floor for you to sweep up.

Disclaimer: We accept no responsibility for the use or misuse of these numbers. They are for professional use only. Many of the above numbers have been rounded, and while there are enough decimal places to keep the film "War and Peace" sample accurate for it's duration, we realize that some lunatic out there may try to make a film that's longer – so if you hear phasing in the 48th reel of a monumental film such as Andy Warhol's "sleep", well, it's not our fault. Even if it was our fault our exclusive remedy is to refund the money you gave us for these numbers, which is nothing. Batteries not included, your mileage may vary, and please watch your step.

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