Extension

11/9/17

(change to same denominator)

$\frac{1}{6} = \frac{100}{600}$, $\frac{1}{25} = \frac{24}{600}$, $\frac{3}{5} = \frac{360}{600}$, $\frac{3}{20} = \frac{90}{600}$, $\frac{4}{15} = \frac{160}{600}$, $\frac{5}{8} = \frac{375}{600}$

$\frac{100+24+360+90+160+375}{600} = 1\frac{509}{600}$

So we need to take away approximately $\frac{5}{6}$ away using above fractions.

Or to make it simple; take away some of ~~those~~ these: 100, 24, 360, 90, 160, 375 to make and make it equal 509.

375 + 100 + 24 = 499

360 + 160 = 520

100 + 24 + 90 + 160 = 374 which is nowhere near to 509. Therefore one of either 360 or 375 must be used (both is too much).

375 + 100 + 24 = 499 which is -10 to 1

Is there a way to add 10 to this. If we took 375 to 360 and 100 to 90 we have 25 + the extra 10 = 35 but there is not a number close to ~~50~~ 50

So the closest to 509 we can get to is 375 + 100 + 24.

375 + 100 + 24 is the $\frac{5}{8} + \frac{1}{6} + \frac{1}{25}$ So adding up all but these three would give the total of $1\frac{10}{600}$ $2\frac{1}{60}$

Therefore the closest we can get to the answer of 1 is

$1\frac{1}{60}$ by adding together $\frac{3}{5}, \frac{3}{20}, \frac{4}{15}$