name | date | period

Batch 51efde39

Accuracy Counts

Version 1

Round answer to 3 decimals.

$$\frac{19}{26} + \frac{92}{175} + \frac{44}{91} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 2

Round answer to 3 decimals.

$$\frac{27}{68} + \frac{156}{175} + \frac{93}{119} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 3

Round answer to 3 decimals.

$$\frac{31}{68} + \frac{11}{35} + \frac{69}{119} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 4

Round answer to 3 decimals.

$$\frac{25}{34} + \frac{71}{175} + \frac{57}{119} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 5

Round answer to 3 decimals.

$$\frac{15}{26} + \frac{2}{35} + \frac{6}{91} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 6

Round answer to 3 decimals.

$$\frac{15}{44} + \frac{37}{175} + \frac{26}{77} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 7

Round answer to 3 decimals.

$$\frac{31}{68} + \frac{78}{175} + \frac{1}{119} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 8

Round answer to 3 decimals.

$$\frac{8}{17} + \frac{47}{75} + \frac{44}{51} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 9

Round answer to 3 decimals.

$$\frac{5}{68} + \frac{5}{7} + \frac{55}{119} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 10

Round answer to 3 decimals.

$$\frac{5}{11} + \frac{106}{175} + \frac{20}{77} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 11

Round answer to 3 decimals.

$$\frac{12}{13} + \frac{23}{175} + \frac{46}{91} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 12

Round answer to 3 decimals.

$$\frac{9}{34} + \frac{97}{175} + \frac{62}{119} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 13

Round answer to 3 decimals.

$$\frac{7}{22} + \frac{113}{175} + \frac{69}{77} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 14

Round answer to 3 decimals.

$$\frac{7}{13} + \frac{11}{35} + \frac{68}{91} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 15

Round answer to 3 decimals.

$$\frac{35}{52} + \frac{71}{175} + \frac{72}{91} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 16

Round answer to 3 decimals.

$$\frac{33}{34} + \frac{136}{175} + \frac{80}{119} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 17

Round answer to 3 decimals.

$$\frac{4}{11} + \frac{148}{175} + \frac{27}{77} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 18

Round answer to 3 decimals.

$$\frac{11}{26} + \frac{33}{175} + \frac{59}{91} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 19

Round answer to 3 decimals.

$$\frac{43}{52} + \frac{2}{15} + \frac{23}{39} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 20

Round answer to 3 decimals.

$$\frac{6}{17} + \frac{17}{75} + \frac{50}{51} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 21

Round answer to 3 decimals.

$$\frac{25}{68} + \frac{41}{175} + \frac{20}{119} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 22

Round answer to 3 decimals.

$$\frac{45}{68} + \frac{121}{175} + \frac{2}{119} = \square$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 23

Round answer to 3 decimals.

$$\frac{1}{68} + \frac{67}{175} + \frac{11}{119} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 24

Round answer to 3 decimals.

$$\frac{7}{13} + \frac{87}{175} + \frac{55}{91} = \boxed{}$$

name | date | period

Batch 51efde39

Accuracy Counts

Version 25

Round answer to 3 decimals.

$$\frac{15}{34} + \frac{146}{175} + \frac{41}{119} = \boxed{}$$

V. 1	V. 2	V. 3	V. 4	V. 5	V. 6	V. 7	V. 8	V. 9	V. 10	V. 11
1.740	2.070	1.350	1.620	0.700	0.890	0.910	1.960	1.250	1.320	1.560

V. 12	V. 13	V. 14	V. 15	V. 16	V. 17	V. 18	V. 19	V. 20	V. 21
1.340	1.860	1.600	1.870	2.420	1.560	1.260	1.550	1.560	0.770

V. 22	V. 23	V. 24	V. 25
1.370	0.490	1.640	1.620

Accuracy Counts

Teachable Moment

So how do we always get answers that require only 2 decimals?

Our problem is of the form

$$\frac{a}{4p} + \frac{b}{25q} + \frac{c}{pq} = \frac{25aq + 4bp + 100c}{100pq}$$

where $p \in \{11, 13, 17\}$ and $q \in \{3, 7\}$. Note that 4, 25, p and q are all relatively prime. The fractions are displayed in simplified form so the pattern may not be obvious.

For any whole numbers a and b (chosen at random) there will exist a unique $c < pq$ such that

$$25aq + 4bp + 100c$$

will be evenly divisible by pq, and any number divided by 100 takes at most 2 decimals.

Taking the modulo with respect to pq gives us

$$\mathrm{mod}_p(25a) + \mathrm{mod}_q(4b) + \mathrm{mod}_{pq}(100c) = 0$$

which has a solution that is most easily found by trying all possible values for c.

It should be noted that if a is evenly divisible by p and b is evenly divisible by q, the solution will be $c = 0$, so these values are excluded.