Adding Three Fractions In The Form: $\frac{1}{a}+\frac{1}{ab}+\frac{1}{ab^2}$

A. From algebra we learn:

$$\frac{1}{a}+\frac{1}{ab}+\frac{1}{ab^2} = \frac{b\cdot(b+1)+1}{ab^2}$$

B. Use the following rules:

1. Multiply the coefficient 'b', by that number plus 1.
2. Add 1 to step 1. This is the numerator.
3. The last denominator of the question is the denominator of the answer.
4. Simplify the fraction if need be.

Ex [1] $\frac{1}{4}+\frac{1}{12}+\frac{1}{36}=$ _____ (fraction).

a) The coefficient in this case is 3.

b) 3 x (3 + 1) = 12.

c) 12 + 1 = 13. This is the numerator.

d) The answer is $^{13}/_{36}$.

Ex [2] $\frac{1}{5}+\frac{1}{20}+\frac{1}{80}=$ _____ (fraction).

a) The coefficient in this case is 4.

b) 4 x (4 + 1) = 20.

c) 20 + 1 = 21. This is the numerator.

d) The answer is $^{21}/_{80}$.