Basic Math Homework #8

1) Is the number 437 prime or composite? If it is composite, what is its prime factorization?

2) Simplify: $-(-1-2)^2 - 8 \div 4(-1-1) - 9^0 + 2^3$

3) Simplify: $\dfrac{273}{195}$

4) Simplify: $\sqrt[3]{2197}$

5) If, in a group of 320 people, 144 of them like soda, what fraction doesn't like soda?

6) Find the product of $\dfrac{24}{81}$ and $\dfrac{54}{36}$

7) Simplify: $\sqrt{\dfrac{9}{16}}$

8) Simplify: $\dfrac{686}{338} \cdot \dfrac{429}{539}$

9) Simplify: $\sqrt[3]{\dfrac{64}{125}}$

10) Simplify: $\dfrac{102}{132} \cdot \dfrac{88}{153} \cdot \dfrac{48}{64}$

11) Simplify: $\sqrt{\dfrac{196}{144}}$

12) Find $\dfrac{12}{15}$ of $\dfrac{25}{18}$

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13) Simplify: $\sqrt{\dfrac{289}{484}}$

14) Simplify: $\dfrac{128}{96} \cdot \dfrac{189}{441}$

15) Simplify: $\sqrt{\dfrac{1}{81}}$

16) Simplify: $\dfrac{84}{126} \cdot \dfrac{117}{102} \cdot \dfrac{187}{286}$

17) Simplify: $\sqrt[4]{\dfrac{625}{1296}}$

18) Simplify: $\dfrac{96}{64} \cdot \dfrac{108}{144}$

19) Simplify: $\sqrt{\dfrac{72}{50}}$

20) Simplify: $\dfrac{105}{343} \cdot \dfrac{189}{405} \cdot \dfrac{198}{572}$