

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: $\frac{273}{195}$
- 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 $\frac{24}{81}$ and $\frac{54}{36}$
- 7) Simplify: $\sqrt{\frac{9}{16}}$
- 8) Simplify: $\frac{686}{338} \cdot \frac{429}{539}$
- 9) Simplify: $\sqrt[3]{\frac{64}{125}}$
- 10) Simplify: $\frac{102}{132} \cdot \frac{88}{153} \cdot \frac{48}{64}$
- 11) Simplify: $\sqrt{\frac{196}{144}}$
- 12) Find $\frac{12}{15}$ of $\frac{25}{18}$

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

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

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

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

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

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

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

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

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