Simplifying Radical Expressions

Radical Expressions

$\sqrt[n]{x}$

$\sqrt{121}$ $\sqrt{1}$ $\sqrt{0}$ $\sqrt{\frac{36}{49}}$ $\sqrt{x^2}$

Prime Numbers - Numbers greater than one that are only divisible by one and itself.

2 3 5 7 9 10

Prime Factorization - a number written as a product of prime numbers

32 104

1. Simplify each radical expression.

a) $\sqrt{60}$

b) $\sqrt{96}$

c) $\sqrt{128}$

d) $\sqrt{\frac{184}{2}}$

e) $\sqrt{42}$

f) $\sqrt{x^2y^4}$

g) $\sqrt{x^4y^6z^3}$

h) $\sqrt{32a^5b^3}$

i) $\sqrt{\frac{x^7 y^6}{z^{11}}}$

j) $\sqrt{\frac{ab^2}{c}}$

k) $\sqrt{\frac{b}{16a^4}}$