Word Bank: Factors, intercepts, rectangle, dimensions, product, sum, zero product property (ZPP), graph

1. What does it mean to factor an expression, for example $x^{2}+5 x-14$ ? Be specific.
2. Use an area model to factor $10 x^{2}+13 x-3$.
3. What is the Zero Product Property? How can you use the ZPP to solve equations like $10 x^{2}+13 x-3=0$ ?
4. Solve each equation below. Show your work in your math notebook.
a. $(x-3)(x+7)=0$
b. $(2 x-5)(x+3)=0$
c. $x^{2}+5 x-6=0$
d. $x^{2}+10=7 x$
e. $2 x^{2}+11 x+12=0$
5. Describe which rectangles have the biggest area (what kinds of fields were the biggest?).
