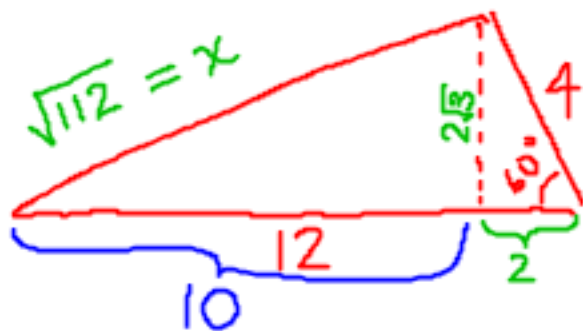


Ideas about the problem in the box for Day 3

- Multiples of 11 seem like they can't be written as $x^2 + y^2 - xy$
- Lengths on square dot paper match with numbers of form $x^2 + y^2$
- Lengths on isometric dot paper match with numbers of form $x^2 + y^2 - xy$
- No entries in columns 2, 5, 6, 8, 10, 11
No entries that are $2 \pmod 3$, or $2 \pmod 4$
- $x=12, y=4$ gives 112
 $x=12, y=8$ also gives 112 and $4 + 8 = 12$

These are conjectures

$$x^2 = 10^2 + (2\sqrt{3})^2 = 112$$



Hallo
McAllen folks!

