MINIMIZING PERIMETER WITH CONSTRAINTS PRACTICE – WHOLE NUMBERS

1. A rectangular section of a field is to be fenced. Because one side of the field is bordered by the neighbor’s fence, only 3 sides need to be fenced. The fenced section should have an area of 16 m2. Determine the minimum perimeter and dimensions of the section if the side lengths must be whole numbers.
2. A rectangular pool area is to be fenced. Because one side of the pool area is bordered by the house, only 3 sides need to be fenced. The pool area must be 30 m2. Determine the minimum perimeter and dimensions of the pool area if the side lengths must be whole numbers.