OLD SALEM EXPLORATORIUM

Skein Winding with Decimals

Grade 5 Math

Student Name: _____ Date: _____

Activity 1. For every turn of the skein winder, the first gear makes 1 tenth of a turn, and the last gear makes 1 hundredth of a turn.

a.   If you turn the winder 361 times how many times does the first gear turn?

   (*Show your work*)

b.   How many times does the last gear turn?

   (*Show your work*)

Activity 2. One turn of the winder will wrap 6.75 feet of thread around the wheel. If the weaver turns the winder 13.77 times:
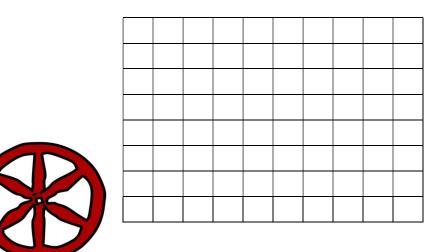
a.   How many inches of thread will be wrapped on the wheel?

   (Show your work)

b.   How many yards of thread will be wrapped on the wheel?

   (Show your work)

Activity 3. Each spoke of the skein winder costs about 0.19 shillings to make. There are 5 spokes altogether. How much will all the spokes cost to make?

Shade in the boxes below to represent the equation.