

Towpath to the Past™

A School Outreach Program of The Summit County Historical Society of Akron

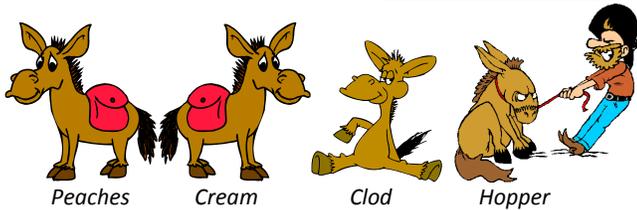
MATH FUN

2011-12

The year is 1835

You are helping to build a Stone Mansion for Col. Simon and Grace Perkins. The sandstone for the home is being cut at Deep Lock Quarry and transported south along the Ohio and Erie Canal on a canal boat into Akron. From the canal boat the sandstone must be transported along the stagecoach route on Copley Road to where the home is being built. You have one wagon, and four mules named **Clod, Hopper, Peaches and Cream** to help transport the stone.

- A. Each block of sandstone weighs 75 lbs. Your wagon can carry up to 4200 lbs. How many blocks of sandstone will your wagon hold? _____



- B. You and your partner Jasper loaded 51 blocks of sandstone on to your wagon. You must now unload the blocks of sandstone at the building site of the Stone Mansion. Jasper has not been very helpful and unloaded only 19 blocks of sandstone. How many blocks did you have to unload? _____

The year is 1847

Ohio and Erie Canal Boat Cargo Pricing

CARGO	PRICE PER UNIT	Pounds per bushel
Bushel of Wheat	\$.15 per bushel	1 bushel = 60 lbs.
Bushel of Shelled Corn	\$.09 per bushel	1 bushel = 56 lbs.
Bushel of Rye	\$.18 per bushel	1 bushel = 80 lbs.

- C. You are shipping 850 bushels of shelled corn and 43 bushels of rye on the canal boat **Lady Washington**, how much will you be charged to ship these items? Shelled corn? _____ Rye? _____
- D. What is the total shipping cost for both shelled corn and rye? _____
- E. Per unit price, which cargo is the least expensive to ship? _____
- F. You are shipping 36,000 pounds of wheat, how many bushels will you be shipping? _____



Wheat



Corn



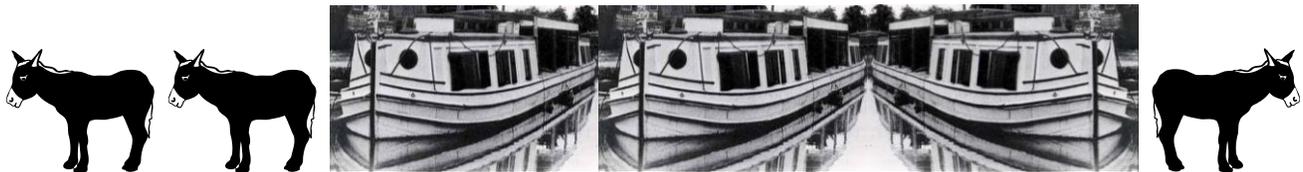
Rye

The year is 1864

- G. You are captain of the Canal Boat ***Barely Floats***. You have stopped off at Ferdinand Schumacher's grist mill in Akron to ship his rolled oats to Columbus, Ohio. Each barrel of oats weighs 180 lbs. You have loaded 89 barrels of oats on to your canal boat. How many pounds of rolled oats are you shipping for Ferdinand Schumacher? _____

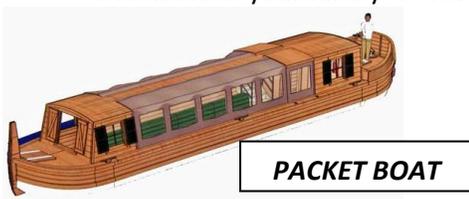


- H. If the cost for building and equipping a freight canal boat (this included the mules for towing) was \$2,400 per boat and the canal boat owner owned 3 freight canal boats, how much did he pay for all three?



The year is 1875

- I. You are traveling on the packet boat ***Monkey Business*** with your Aunt Lucy, Uncle Abraham, sister Grace and Grandma Margaret. You are going to Lake Erie in Cleveland, Ohio, leaving from Lock 1 in Akron, Ohio, a trip of 38 miles. The fee for each person is 4 cents per mile. How much will it cost for you and the other members of your family to travel to Cleveland? _____



The year is 1913

- J. Flooding from melting snow and heaving rains is destroying homes and businesses along the Ohio and Erie Canal in Akron. The banks of the canal are being washed away along with many bridges. To help end the destruction caused by the flooding it has been decided to demolish some of the locks along the canal. By doing this the water will flow more freely but the canal era will be ended. How many years will have passed from the time the Perkins Stone Mansion was being built in 1835 and the year of the great flood, 1913?
