

**FUN FACES OF WISCONSIN AGRICULTURE  
WHAT TO MAKE WITH MILK-ANSWER KEY**



ANSWER KEY

Using the conversion factors below, answer the questions and show your work.  
Milk Conversion Factors:

---

One quart of milk weighs 2.15 lbs.  
One gallon of milk weighs 8.6 lbs.

---

<i>To make one pound of.....</i>	<i>.....you need:</i>
Butter	21.8 lbs whole milk
Cheese	9.8 lbs whole milk
1 gallon Ice Cream	12.0 lbs whole milk
Plain Yogurt (not low fat)	1 lb whole milk

Source: USDA

Can any products be produced with just one gallon of milk?

*Only plain yogurt*

How many pounds of milk are in five gallons?

*8.6 pounds per gallon X 5 gallons = 43 pounds of milk*

How many gallons of ice cream can be made with five gallons of milk?

*43 pounds / 12 pounds = 3.6 so only three gallons can be made*

What products could be made with two gallons and three quarts of milk?

*2 gallons X 8.6 pounds = 17.2 pounds of milk*

*3 quarts X 2.15 pounds = 6.45 pounds of milk*

*17.2 pounds + 6.45 pounds = 23.65 pounds of milk*

*One gallon ice cream, one pound cheese, one pound plain yogurt = 22.8 lbs*

*Or one pound of butter and one pound of plain yogurt = 22.8 pounds*

How many gallons of milk would you need to make 5 gallons of ice cream?

*5 gallons X 12 lbs milk = 60 pounds of milk*

*60 pounds of milk / 8.6 lbs in a gallon = 6.98 gallons milk*