



Math



Literacy

FUTURES FARMING

1. PRE-HARVEST PHASE

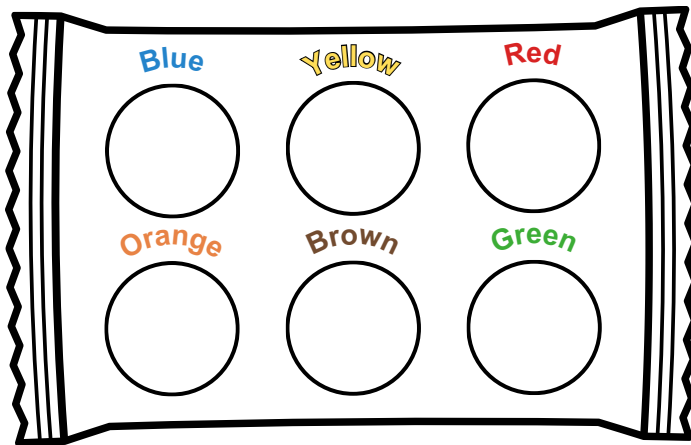
Do not open your bag of M&Ms yet!

Farmers have the option to pre-sell their crop before harvest at a higher price *or* wait until harvest and sell at a lower price. Predict how many M&Ms you will have and then decide how many of each color you'd like to pre-sell. *You do not have to pre-sell them all.*

M&M PREDICTION

You have approximately 17-20 M&Ms in your bag.

Predict how many of each color there will be:



PRE-SELL PRICE

Blue	_____	x \$4.50 =	_____
Yellow	_____	x \$4.50 =	_____
Red	_____	x \$4.50 =	_____
Orange	_____	x \$4.50 =	_____
Brown	_____	x \$4.50 =	_____
Green	_____	x \$4.75 =	_____

A: Total Pre-Sell Profit: \$ _____



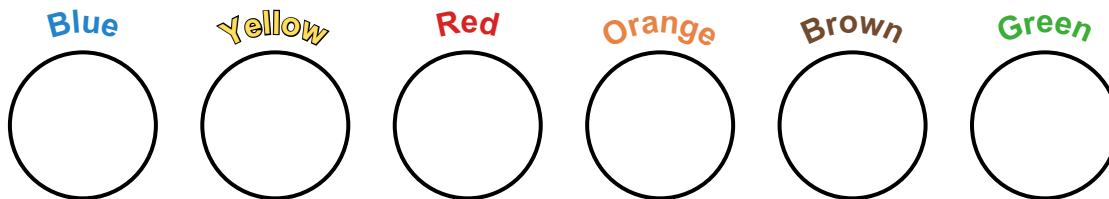
TIME TO HARVEST!

Open your bag of M&Ms. Record the number you have of each color in the top row, the number you pre-sold in the middle row, then subtract to find your remaining number. *Some numbers in the bottom row might be negative. This means you oversold that color.*

	example	Blue	Yellow	Red	Orange	Brown	Green
Number in Bag	4						
Number Pre-Sold	3						
Number left to sell OR oversold (if negative)	1						

2. HARVEST PHASE

Copy your numbers from the bottom row of the table on the previous page into these bubbles.



Any of these numbers that are positive, complete the math below.

Blue	_____	x \$4.00 =	_____
Yellow	_____	x \$4.00 =	_____
Red	_____	x \$4.00 =	_____
Orange	_____	x \$4.00 =	_____
Brown	_____	x \$4.00 =	_____
Green	_____	x \$4.25 =	_____

Any of these numbers that are negative, complete the math below.

Blue	_____	x \$4.50 =	_____
Yellow	_____	x \$4.50 =	_____
Red	_____	x \$4.50 =	_____
Orange	_____	x \$4.50 =	_____
Brown	_____	x \$4.50 =	_____
Green	_____	x \$4.75 =	_____

B: Total Post-Harvest Profit: \$ _____

C: Total Oversell Deficit: \$ _____



THE BOTTOM LINE

Now, calculate your total profit or loss below.

A: Pre-Sell Profit

B: Post-Harvest Profit

C: Oversell Deficit

Total Profit or Loss:

<div style="border: 1px solid black; width: 150px; height: 50px; margin: 5px;"></div>	+	<div style="border: 1px solid black; width: 150px; height: 50px; margin: 5px;"></div>	-	<div style="border: 1px solid black; width: 150px; height: 50px; margin: 5px;"></div>	=	<div style="border: 1px solid black; width: 150px; height: 50px; margin: 5px;"></div>
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REFLECTION

What types of factors could decrease yield in a growing season?

The green M&M was worth more than the rest in this experiment. What could this represent in the real world?