

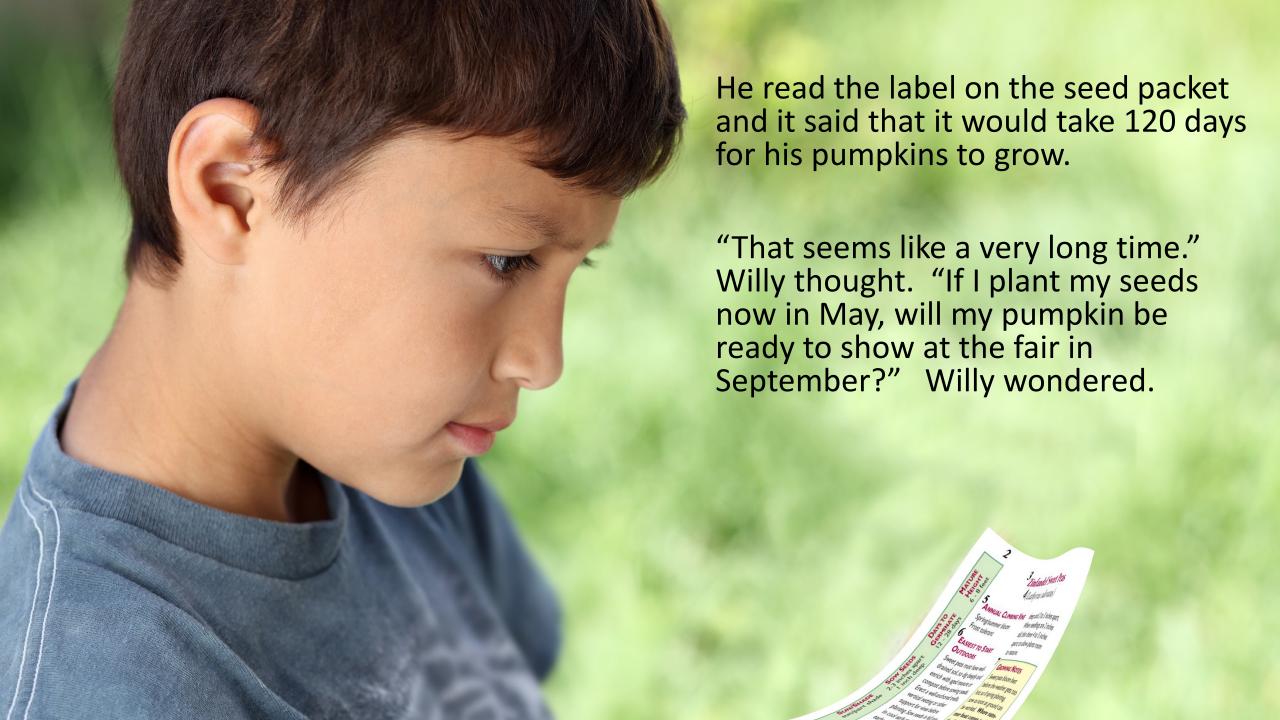


Willy looked forward to going to the state fair every year in the fall.

His favorite thing to see were the giant pumpkins that farmers brought to show in the BIG PUMPKIN CONTEST.

This year, Willy wanted to grow his own prize pumpkin to enter at the fair.







Willy laid in the spring grass and added the days of the coming months in his head. "May has 31 days; June has 30 days," he thought. Willy continued to count. "July has 31 days and August has 31 days too. That's 123 days or 4 months. Perfect! If I plant my seeds now, my pumpkins will be ready just in time for the fair!"

Willy made a list of things he needed to do to get his plants to grow.

And then he remembered one more thing....

## willy's LIST

- 1. Plant outside in the spring.
- 2. Put seeds in the ground.
  - 3. Cover with soil.
  - 4. They need lots of sun and water.
  - 5. Watch out for rabbits.

...Grandpa's secret compost!

"Mixing compost with the soil provides vitamins and minerals so your plants will grow big and strong." Willy's Grandpa had told him.

So Willy made a bucket full of compost for his pumpkin plants.



"Regular pumpkins can grow up to 20 pounds, but a giant pumpkin can grow to be 800 pounds or more!" Grandpa told Willy.

"I wonder if 800 pounds is very heavy?" Willy pondered.





Willy decided to try an experiment to see if he could tell how heavy his pumpkin would be.

Willy put a 1 pound bag of beans in a cardboard carton and lifted the box.

"That's not very heavy." he thought. "My pumpkin will be much heavier than that."



So Willy filled his box with 20 bags of beans. "That would be the same weight as a 20 pound pumpkin." he mused. The box was much heavier.



5 1bs. + 5 1bs. + 5 1bs. +



Willy prepared his garden in a sunny spot high on a hill so it would get plenty of sun.

Then he added his "secret compost" to the soil before planting the giant pumpkin seeds.



Willy cared for his pumpkin plants every day, making sure they had plenty of water.

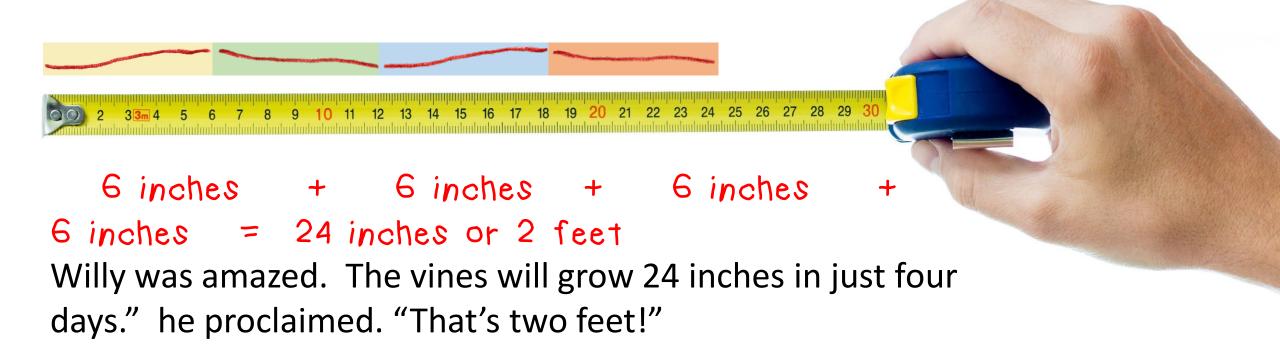
Soon his seeds sprouted roots and began to grow.





"The seedling will soon sprout vines. Giant pumpkin vines can grow up to 6 inches in one day!" Grandpa told Willy. "Wow! I wonder how much that would that be in four days?" Willy asked.

Grandpa had an idea. "Let's cut 6 inch pieces of string and glue them to strips of paper. Then we can tape the paper strips together and you can see how much your vines will grow each day."



Honeybees gathered pollen from the flowers, flying from one flower to another, leaving pollen behind.

Grandpa had told Willy this was important so the flowers would produce a pumpkin. "This is called pollination." Grandpa had said.

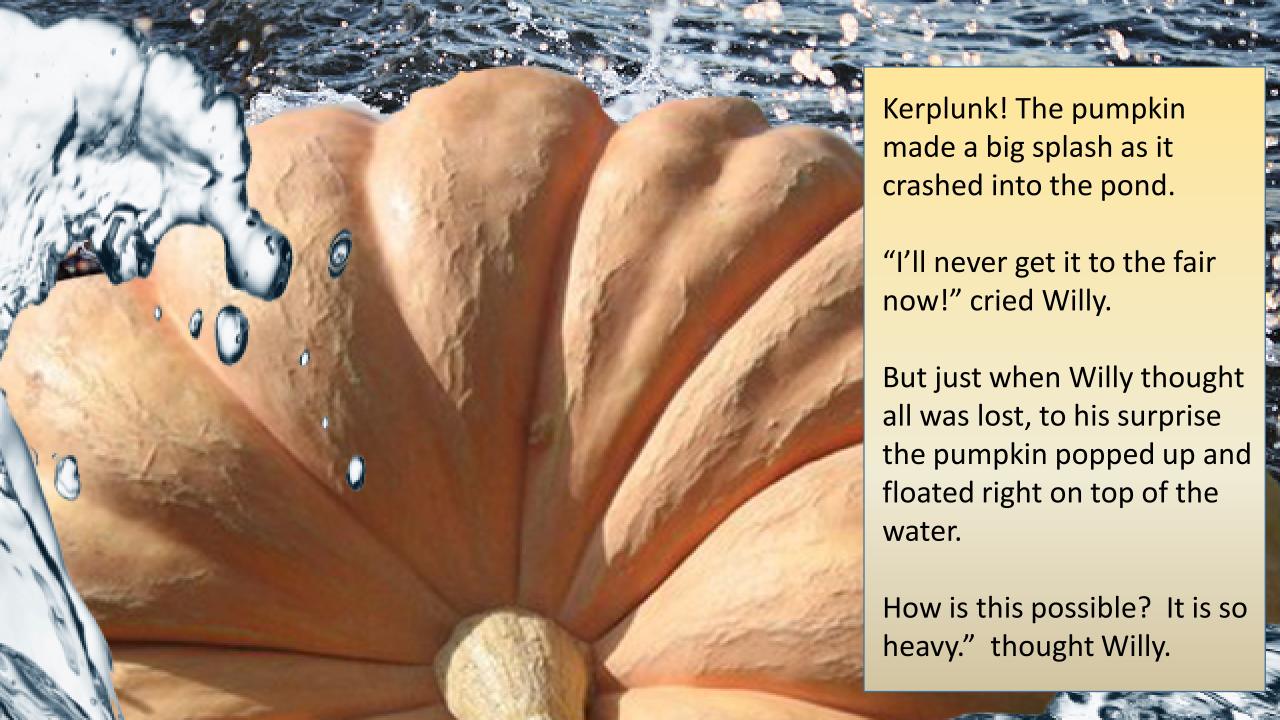
Willy's pumpkins grew and grew and grew, but one in particular was bigger than all the rest. By the end of summer, Willy had grown an enormous pumpkin to show at the fair.

"It's so big and heavy."
Willy thought. "How will I ever get it to the fair?"









Then Willy remembered the pumpkin experiment his class had done at school to see if pumpkins would float.

His class had put a large and small pumpkin in a bucket of water and they both floated to the top.

Willy had learned that pumpkins float because they are hollow and filled with air in the middle which can be seen when they are carved.







When Willy's Grandpa saw what happened, he brought his tractor down to the pond.

"Don't fret." He told Willy. "We will slip some straps around your pumpkin and lift it out of the water.

Willy watched as his Grandpa's tractor lifted the pumpkin high in the air.





When Willy got to the fair, he registered his giant pumpkin in the BIG PUMPKIN CONTEST.

Everyone at the fair was amazed.

Willy had grown the biggest pumpkin anyone had ever seen weighing over eight hundred pounds.

