

## The Potion

It all started in Hazel's kitchen. She and her buddy Val were looking for the Strawberry Quick, but they weren't having much luck.

"Let's try mixing our own drink," offered Hazel.

"Sounds good to me!" answered Val, taking down some spices.

The girls started with a large glass. They added 58.6 ml of milk and 32.4 ml of Texas Pete hot sauce.

"I think it needs some sugar," said Hazel, and she added 25.3 grams to the mix. Then she tasted it, and added 3.45 more grams. Her temperature suddenly went from 98.6 degrees to 100.45 degrees, and her pink hair turned bright red.

"Here, you try," she choked, handing the drink to Val, who looked at it doubtfully.

"I think it needs some, uh, maybe some chocolate sauce." She pulled a new, 250 ml bottle from the cabinet and poured  $\frac{1}{4}$  of it into the mix. Then she closed her eyes tightly and took a sip.

As if shot by a rocket launcher, Val blasted 13.23 inches, straight up, and hovered there.

"Try some more!" said Hazel recklessly.

"Ok, but just a little..." Val took another sip and tripled her height off the ground. "I feel a little strange..." With a pop, Val turned into an acorn squash and fell to the floor.

"Gosh darnit," whispered Hazel. "I'm going to have to find an antidote."

Suddenly, there was a knock at the door, and Hazel's eccentric uncle Mason stepped in. "Oh, hello Hazel!" He gazed at the floor. "Oh, Acorn squash! I have had such a hankering for some acorn squash. Let's cut this one up and boil it."

"Not right now, Uncle Mason," said Hazel, delicately taking the squash from his hands. "How's everything down in the secret lab?" said Hazel.

"Not so good, I'm afraid. This week I lost 12.6 pounds experimenting with my new miracle diet supplement A, but then I gained 73.2 pounds experimenting with supplement B. Boy, I'm thirsty. Hey, mind if I have a sip of this drink?"

Hazel paused a moment. "Well, sure. Have all you want," she said graciously.



*Uncle Mason eyed the concoction greedily, as Hazel looked on with glee...*

1. What was the total liquid volume of milk and Texas Pete?
2. How much sugar did Hazel add?
3. How much did Hazel's temperature change?
4. How much chocolate sauce did Val add?
5. What was Val's greatest height from the floor?
6. What was Mason's change in weight after taking both diet supplements? (A and B)