

# Thrilling Math Problems for You!

Owen studied the secret code. He knew this was an important message from the chief. He took  $2\frac{6}{8}$  cups of V-8 juice and poured half of it over the message to reveal its meaning – an urgent call for help from the laboratory of a mad scientist in Switzerland!

“I’ll need a disguise,” Owen thought to himself as he gathered up his gear. His new 2.34 kilogram parachute was the lightest in the world! He jumped on to his super cycle and headed out to *Pruett’s House of Costumes*, cruising at the top speed of 6 miles per minute for 15 minutes. Arriving at the shop, he couldn’t help but notice the cool costume in the window.

“How much is that grocery boy costume?” he asked the shopkeeper, Nolan.

“Well... It’s usually 54 bucks, but I’ll give you  $\frac{1}{3}$  off the regular price,” he answered.

“Hmmm,” said Owen. “Will you throw in the bag of fake groceries?”

“That’s 14 bucks more. Those groceries are extremely realistic, don’t you agree?”

“I’ll take it,” said Owen.

Soon Owen was parachuting into the mad scientist’s castle. He jumped from the plane at 26,426 feet and fell to a height of 7,209 feet before he pulled the rip chord to open the chute. Silently as a snowflake, he drifted down toward the castle, high in the Swiss Alps.

Landing on the roof with a soft thud, he nimbly wrapped up and stowed his 12 foot diameter parachute and rappelled down the wall to a window, which he accidentally smashed through. Quickly he got to his feet, realizing to his horror that he had jumped right into the villain’s lab!

“Ah, I see you bring the groceries. Good. Good,” said Dr. Richardson glancing up briefly from his work, which at that moment was changing Shunta into a turnip.

Owen was stunned, but, quick thinking as he was, he played along. “Yes sir. Um... Can I carry these out for you sir?”

“Oh, no, just place them on the counter by those turnips,” said the mad man, holding up an electrode.



Disguised as a grocery bag boy, Owen was able to enter the mad scientist’s lab undetected!

1. How much V-8 does Owen have left?
2. How many grams does the parachute weigh?
3. How far away was the costume shop?
4. How much did Owen pay in all for the costume and the fake groceries?
5. How far did Owen fall before he opened his chute?
6. What was the circumference of Owen’s parachute?