

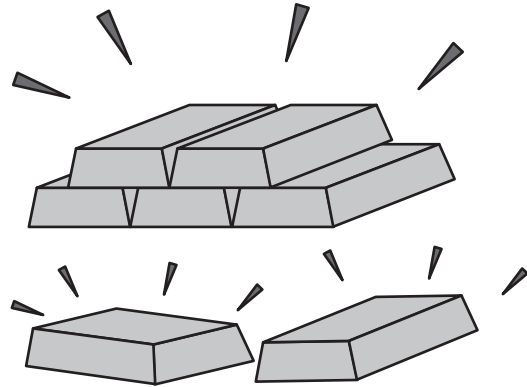
Frank's Weight in Gold

Frank helped his father clean out the garage to earn money to pay for his science experiment. When they were finished his father said, "Great job, Frank. You are worth your weight in gold!"

"That sounds like a lot of gold," said Frank. "I wonder how much that is worth," he thought aloud.

"Well, it is really just a saying," replied his father, "but we can find out."

Together they looked up the current price of gold on a financial website and learned that the price of gold changes every fifteen minutes. At the beginning of the day, the price was \$42.65 per gram and by the end of the day it was \$45.40 per gram.



"The price is not exact; it is a range. We will have to estimate your worth in gold for the day," said his father.

Frank thought, "If I round the price of gold to convenient numbers that would be a range of about \$43 to \$45 dollars per gram for today. I weigh 88 pounds. I know that is like 40 kilograms, but how many grams is that?"

"There are exactly 1000 grams in one kilogram," his father replied.

"So how much is my weight in gold worth?" asked Frank.



Explore

1. Help Frank estimate the range of what his weight in gold is worth for the day. Show or tell how you solved the problem.