



Mystical Math Episode 3 Problems

1. Dusan packed a lot of books. On average, his books are 5 centimeters thick. If the siblings stack the books 100 centimeters high—1 meter—they might be able to reach the ledge. Can you count by fives all the way to 100? How many books would that take?
2. If that mysterious someone in a dark cloak took half of the Kraken's water, and now the Kraken has 400 liters left, how much water did the Kraken have in the pond before? How much water would 400 liters plus 400 liters make?
3. The Kraken started out with 800 liters of water in the pond. Half of the water was stolen in two barrels. If each barrel held equal water, then how much water was in each barrel? 800 split in half...and then in half again. What fraction of the 800 liters did each barrel hold?
4. Water is heavy. 100 liters weighs 100 kilograms. If each rat can carry half a kilogram, about how many rats would be needed to carry each barrel? Think about how many liters are in each barrel, how many kilograms those liters weigh...you'd need one rat for each half kilogram. About how many rats?
5. The siblings need to bring 400 liters of water to the pond. They are making four buckets—how many liters will each sibling bring to the pond, if they split the work evenly? Each bucket holds 2 liters. How many times will each sibling need to fill a bucket and bring it to the pond?
6. Quatrina was supposed to do 50 bucketfuls of water from the stream to the enchanted pond. She can only do 20. How many left are there for her siblings to do? If Trei does 5, then how many are left for Una and Dusan to split between them? What do you think would be a fair amount for each of them to do?