



Mystical Math Episode 5 Problems

1. Remember our review of unicorn speeds last time? At a trot, unicorns would go about 10mph. Realistically, the royal siblings can maybe run about 5mph. How many times faster can the unicorns go at a trot?
2. The siblings have spoken to three of the escaped unicorns. Each unicorn has four hooves. How many horseshoes would those three unicorns need? Four plus four plus four. There were nine other unicorns. Do you think a local blacksmith would have enough horseshoes for them all?
3. The time is now 4:30 in the afternoon. If the siblings need to be back in one and a half hours, then what time do they need to be back? First, what time will it be in one hour from 4:30? Then add half an hour to that. One hour is sixty minutes. How many minutes is an hour and a half?
4. The town has shops for ten different craftsfolk. In an hour and a half, how many minutes could the royal siblings spend shopping at each crafter?
5. The unicorns gave the siblings an hour and a half to find a bargain. 4:30 until 6. The time is now 5:25. How many minutes do the siblings have left? About what fraction of their total time do they have left?
6. A wig from real hair needs about 8 ounces of hair. If an average person with medium length hair had 3 ounces of extra hair that could cut off evenly, then how many heads of hair would the unicorns need to make just one wig? How many ounces of hair do you estimate is on your own head?