1. This is problem (a) of the next page.

2. This is problem (b) of the next page. Assume each side of the pentagon has length 1.

3. Jack and Jill have been accumulating debt since entering university together. Jill got more financial assistance and after 5 years of University studies, took out 2 times as much money in total in student loans than Jack. In total, Jill used 3/5 of her student loan. Jack used 1/3 of his loan every year for 5 years. Now Jack has $13,250 of unused student loans. How much does Jill have in unused student loans? (Cindy’s problem)

4. Read over the UBC Grade 11-12 workshop problems for this academic year 2019-20 and create a new problem of a similar level of difficulty involving some mathematics that most students in grade 11 or 12 would know, but would not yet be known to students in grades 6 or 7.

Note: Please make a photocopy or handwritten copy of the problem you create in question 5 and hand that in as the same time as the homework.