(2) [5 points] A loonie (one Canadian dollar) has a thickness of 1.95mm. The lunar distance from the Earth (distance from Moon to Earth) is 385,000km. Calculate in scientific notation how much money you would need to build a tower of loonies to the Moon. Give your final answer in non-scientific form.

$$\frac{385,000 \, \text{km}}{1.95 \, \text{nm}} = \frac{3.85 \cdot 10^5 \, \text{km}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^8 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 10^9 \, \text{nm}} = \frac{3.85 \cdot 10^9 \, \text{nm}}{1.95 \cdot 1$$

You need approximately 197.44 billion dollars.