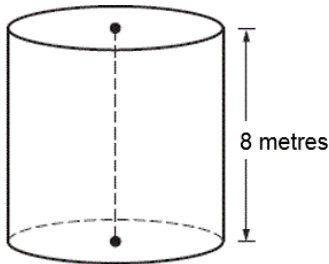# April 2021 challenge

1. A group of friends decided to divide the $800 cost of a trip equally among themselves. When two of the friends decided not to go on the trip, those remaining still divided the $800 cost equally, but each friend's share of the cost increased by $20. How many friends were in the group originally?

2. A dairy farmer uses a storage silo that is in the shape of the upright circular cylinder, shown below. If the volume of the silo is $\pi 72$ cubic metres, what is the diameter of the base of the cylinder, in metres?

8 metres

3. Jeremy deposited x pounds in his investment account on January 1, 2001. The amount of money in the account doubled each year until Jeremy had 480 pounds in his investment account on January 1, 2005. What is the value of x?