Let:

 $T(60) = 60^{\circ}C$ $T(100) = 100^{\circ}C$ $T(x) = 0^{\circ}C$ L(100) = 50 mmL(60) = 52 mmL(x) = ?

Find how many *mm on* **1**°C

$$L(1^{\circ}C) = \frac{L(100) - L(60)}{T(100) - T(60)} = \frac{50 - 52}{100 - 60} = -\frac{2}{40} = -0.05mm$$
$$L(x) = L(100) - L(1^{\circ}C) * (T(100) - T(x)) = 50 - (-0.05 * 100) = 55mm$$

Answer: the value of X is: 55 mm