

$$T = 2\pi\sqrt{\frac{I}{g}}$$

so,
$$\frac{\Delta T}{T} = \frac{1}{2} \left(\frac{\Delta l}{l} + \frac{\Delta g}{g} \right)$$

Givn
$$\Delta T = 1 \text{ sec } T = 50 \text{sec}$$

$$\Delta l = 0.1 cm$$

$$1 = 25 \text{cm}$$

$$\frac{\Delta g}{g} = \frac{2\Delta T}{T} + \frac{\Delta l}{l}$$

$$\frac{\Delta g}{g} = 2 \times \frac{1}{50} + \frac{0.1}{25} = \frac{1.1}{25}$$

$$\frac{\Delta g}{g} = \frac{1.1}{25}$$

$$\% \frac{\Delta g}{g} = \frac{1.1}{25} \times 100 = 4.4\%$$