A walking trail in Stanley Park in Vancouver is 10.8 km long. The Parks Board wants to install benches every 600 m along the trail. The benches cost $350.00 each, and labour will cost $1500.00. How much will it cost to install the benches?

Solution:

We have total distance of walking trail $-10\,800m$. Then find the amount of benches, we know that benches should be installed every 600 m. The amount of benches equals

$$\frac{10\,800}{600} = 18.$$

Now we can find total cost of the benches (we know how much each one cost - $350.00). Total cost of the benches equals

$$18 \times \$350 = \$6\,300.$$

Also we know how much labour will cost - $1500.00. To determine how much it will cost to install benches we must take into account the value of all the established benches and labor charges for installing them

$$\$6\,300 + \$1\,500 = \$7\,800.$$

Answer: total cost of installing benches is $7\,800.