Total benefits for the government =
$$\%$$
 p × N × [4%GDP + (SLW – USLW)

$$\times \%t] \times \sum_{n=1}^{20} \frac{1}{(1+i)^n}$$

With the parameters as follows:

- 1. N= number of children under 14 years in Cote d'Ivoire =10,542,000 (calculate from 42% of population of 25.1×10^6)
- 2. GDP of Côte d'Ivoire is 74.36 USD Billion in 2023
- 3. SLW = \$3458.05
- 4. USLW = \$1537.03
- 5. $t = 0.015 \times 0.8$
- 6. i = 7.1%
- 7. n = 20
- 8. p = 31.3% (percentage of children in child labor)

We can then substitute in the formular and calculate the result as percentage of GDP , since and we get this as follows:

Total benefits over 20 years = (Gain on Health + Gain on taxes) × Future earnings over 20 years
$$= (p \times 42\% \times 4\%GDP + p \times N \times (SLW - USLW) \times t) \times \sum_{n=1}^{20} \frac{1}{(1.071)^n}$$
$$= (0.313 \times 0.42 \times 0.04 \times 74.36 \times 10^9) + (0.313 \times 10,5420,000 \times (3458.05 - 1573.03) \times 0.015 \times 0.8) \times 10.512$$
$$= ((0.313 * 1,249,248,000) + (0.313 * 243,018,822.48)) \times 10.512$$
$$= (391,014,624 + 76,064,891.4362) \times 10.512$$
$$= 4,909,939,866.26$$

This means in percentage of GDP =
$$\frac{4,909,939,866.26}{74.36 \times 10^9} = 0.06602931503 = 6.6\%$$

The total gain of the government will be 6.6% GDP in the next 20 years