# Consumer price index,

# CPI used to be based

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The consumer price index, CPI, is a comparison of the cost products that provide basic needs from a time in the past to the current.

$$CPI = \frac{Current\_Cost}{Cost\_in\_Past} \times 100$$

| Item | Current Cost in 2014 | Cost in 2000 |
|---|---|---|
| New home | | $154,188 |
| Week of groceries | | 61 |
| Compact car | | 12,726 |
| Basic outfit | | 144 |

Set the Way-Back time machine to have a current year of 2014. The CPI for the above prices from 2000 to the 2014 was 133.1. What was the cost of a compact car in 2014? Express your answer as a dollar amount to the nearest dollar.

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| Item | Current Cost in 2011 | Cost in 2005 |
|---|---|---|
| New home | | $171,990 |
| Week of groceries | | 66 |
| Compact car | | 14,162 |
| Basic outfit | | 170 |

Set the Way-Back time machine to have a current year of 2011. The CPI for the above prices from 2005 to the 2011 was 113.4. What was the cost of a basic outfit in 2011? Express your answer as a dollar amount to the nearest dollar.

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| Item | Current Cost in 2010 | Cost in 2004 |
|---|---|---|
| New home | 184,411 | $161,058 |
| Week of groceries | 74.46 | 65.03 |
| Compact car | 14,930 | 13,039 |
| Basic outfit | 185 | 162 |

Set the Way-Back time machine to have a current year of 2010. What was the CPI for the price of a new home from 2004 to 2010 according to the information in the table? Express your answer to the nearest tenth.

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| Item | Current Cost in 2014 | Cost in 2000 |
| --- | --- | --- |
| New home | 208,184 | $156,412 |
| Week of groceries | 78.93 | 59.30 |
| Compact car | 16,229 | 12,193 |
| Basic outfit | 198 | 149 |

Set the Way-Back time machine to have a current year of 2014. What was the CPI for the price of a basic outfit from 2000 to 2014 according to the information in the table? Express your answer to the nearest tenth.

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$$CPI = \frac{Current\_Cost}{Cost\_in\_Past} \times 100$$

| Item | Current Cost in 2015 | Cost in 2004 |
| --- | --- | --- |
| New home | $200,590 | |
| Week of groceries | 78 | |
| Compact car | 17,465 | |
| Basic outfit | 245 | |

Set the Way-Back time machine to have a current year of 2015. The CPI for the above prices from 2004 to the 2015 was 123.1. What was the cost of a week of groceries in 2004? Express your answer as a dollar amount to the nearest dollar.

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$$CPI = \frac{Current\_Cost}{Cost\_in\_Past} \times 100$$

| Item | Current Cost in 2011 | Cost in 2002 |
| --- | --- | --- |
| New home | $200,552 | |
| Week of groceries | 75 | |
| Compact car | 14,864 | |
| Basic outfit | 182 | |

Set the Way-Back time machine to have a current year of 2011. The CPI for the above prices from 2002 to the 2011 was 120. What was the cost of a week of groceries in 2002? Express your answer as a dollar amount to the nearest dollar.

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$$CPI = \frac{Current\_Cost}{Cost\_in\_Past} \times 100$$

| Item | Current Cost in 2014 | Cost in 2006 |
| --- | --- | --- |
| New home | $199,411 | |
| Week of groceries | 80 | |
| Compact car | 16,097 | |
| Basic outfit | 232 | |

Set the Way-Back time machine to have a current year of 2014. The CPI for the above prices from 2006 to the 2014 was 116.9. What was the cost of a basic outfit in 2006? Express your answer as a dollar amount to the nearest dollar.