**Taking from:**

E36 Measurement:

* the carbon 14 dating of the “Schoeninger Speer II” in 1996 [The carbon 14 dating of an approximately 400.000 year old complete Old Palaeolithic wooden spear found in Schoeningen, Niedersachsen, Germany, in 1995.] (Kouwenhoven, 1997)

**I derive (in yellow), blue to be deleted!:**

E54 Dimension:

Examples:

* the weight of the Luxor Obelisk [250 metric tons]
* the vertical height of the statue of David by Michaelangelo [5.17 metres]
* the weight of the Great Star of Africa diamond [530.2 carats]
* the calibrated C14 date for the Shroud of Turin [AD1262-1312, 1303-1384]
* the horizontal diameter of the Stonehenge Sarsen Circle [33 metres] (Pryor, 2016)
* the length of the sides of the Great Pyramid at Giza [230.34 metres] (Lehner and Hawass, 2017)
* the duration of the time span of the Battle of Issos/Issus on 15th November 333 B.C.E. [less than 12 hours] (Howard, 2012)
* Christie’s hammer price, in British Pounds, for Vincent van Gogh's "Still Life: Vase with Fifteen Sunflowers" in London on 30th March 1987 (E97) [24.75 million GBP (Brithish Pounds)]
* the result of the carbon 14 dating of the “Schoeninger Speer II” in 1996 [which *has type* *(P2)* carbon 14 dating (E55) and *has unit (P91)* BP (E55) and *has value (P90)* 400.000 . It was a dating of an approximately 400.000 year old complete Old Palaeolithic wooden spear found in Schoeningen, Niedersachsen, Germany, in 1995.] (Kouwenhoven, 1997)

**P90 has value**

Domain:

[E54](#_toc8128) Dimension

Range:

[E60](#_toc8250) Number

Quantification:

many to one, necessary (1,1:0,n)

Scope note:

This property allows an instance of E54 Dimension to be approximated by an instance of E60 Number primitive.

Examples:

* The height of silver cup 232 (E54) *has value* 226 (E60). (fictitious)
* Christie’s hammer price for Vincent van Gogh’s “Still Life: Vase with Fifteen Sunflowers” in London on 30th March 1987 (E97) *has value* 24,750,000 (E60).
* the result of the carbon 14 dating of the “Schoeninger Speer II” in 1996 (E54) *has value* 400.000 (E60) [It was a dating of an approximately 400.000 year old complete Old Palaeolithic wooden spear found in Schoeningen, Niedersachsen, Germany, in 1995.] (Kouwenhoven, 1997)

In First Order Logic:

P90(x,y) ⇒ E54(x)

P90(x,y) ⇒ E60(y)

**P91 has unit (is unit of)**

Domain:

[E54](#_toc8128) Dimension

Range:

[E58](#_toc8210) Measurement Unit

[Superproperty of:](#_heading=h.1smtxgf)

[E97](#_toc8766) Monetary Amount. [P180](#_toc11635) has currency: [E98](#_toc8777) Currency

Quantification:

many to one, necessary (1,1:0,n)

Scope note:

This property shows the type of unit an instance of E54 Dimension was expressed in.

Examples:

* The height of silver cup 232 (E54) *has* *unit* mm (E58). (fictitious)
* Christie’s hammer price for Vincent van Gogh’s “Still Life: Vase with Fifteen Sunflowers” in London on 30th March 1987 (E97) *has unit* GBP (E55).
* the result of the carbon 14 dating of the “Schoeninger Speer II” in 1996 (E54) *has unit* BP (E55) [“BP” stands for “before present” and is used for calibrated C14 dating results. It was a dating of an approximately 400.000 year old complete Old Palaeolithic wooden spear found in Schoeningen, Niedersachsen, Germany, in 1995.] (Kouwenhoven, 1997)

In First Order Logic:

P91(x,y) ⇒ E54(x)

P91(x,y) ⇒ E58(y)