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Tesseract Formulas

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List of 12 Tesseract Formulas

Tesseract 🔗

Edge Length of Tesseract 🔗

1) Edge Length of Tesseract given Hypervolume 🔗

fx $l_e = V_{Hyper}^{\frac{1}{4}}$

ex $5m = (625m^4)^{\frac{1}{4}}$

2) Edge Length of Tesseract given Surface Area 🔗

fx $l_e = \sqrt{\dfrac{SA}{24}}$

ex $5m = \sqrt{\dfrac{600m^2}{24}}$

3) Edge Length of Tesseract given Surface Volume 🔗

fx $l_e = \dfrac{V_{Surface}^{\frac{1}{3}}}{2}$

ex $5m = \dfrac{(1000m^3)^{\frac{1}{3}}}{2}$

Hypervolume of Tesseract 🔗

4) Hypervolume of Tesseract 🔗

Open Calculator 🔗

fx $\boxed{V_{\text{Hyper}} = l_e^4}$

ex $\boxed{625\text{m}^4 = (5\text{m})^4}$

5) Hypervolume of Tesseract given Surface Area 🔗

Open Calculator 🔗

fx $\boxed{V_{\text{Hyper}} = \dfrac{\text{SA}^2}{576}}$

ex $\boxed{625\text{m}^4 = \dfrac{(600\text{m}^2)^2}{576}}$

6) Hypervolume of Tesseract given Surface Volume 🔗

Open Calculator 🔗

fx $\boxed{V_{\text{Hyper}} = \left(\dfrac{V_{\text{Surface}}}{8}\right)^{\frac{4}{3}}}$

ex $\boxed{625\text{m}^4 = \left(\dfrac{1000\text{m}^3}{8}\right)^{\frac{4}{3}}}$

Surface Area of Tesseract ⤤

7) Surface Area of Tesseract ⤤

fx $SA = 24 \cdot \left(l_e^2 \right)$

Open Calculator ⤤

ex $600m^2 = 24 \cdot \left((5m)^2 \right)$

8) Surface Area of Tesseract given Hypervolume ⤤

fx $SA = 24 \cdot \sqrt{V_{Hyper}}$

Open Calculator ⤤

ex $600m^2 = 24 \cdot \sqrt{625m^4}$

9) Surface Area of Tesseract given Surface Volume ⤤

fx $SA = 6 \cdot V_{Surface}^{\frac{2}{3}}$

Open Calculator ⤤

ex $600m^2 = 6 \cdot (1000m^3)^{\frac{2}{3}}$

Surface Volume of Tesseract ⤤

10) Surface Volume of Tesseract ⤤

fx $V_{Surface} = 8 \cdot \left(l_e^3 \right)$

Open Calculator ⤤

ex $1000m^3 = 8 \cdot \left((5m)^3 \right)$

11) Surface Volume of Tesseract given Hypervolume

Open Calculator

fx $V_{\text{Surface}} = 8 \cdot V_{\text{Hyper}}^{\frac{3}{4}}$

ex $1000\text{m}^3 = 8 \cdot \left(625\text{m}^4\right)^{\frac{3}{4}}$

12) Surface Volume of Tesseract given Surface Area

Open Calculator

fx $V_{\text{Surface}} = \left(\dfrac{\text{SA}}{6}\right)^{\frac{3}{2}}$

ex $1000\text{m}^3 = \left(\dfrac{600\text{m}^2}{6}\right)^{\frac{3}{2}}$

Variables Used

- l_e Edge Length of Tesseract *(Meter)*

- **SA** Surface Area of Tesseract *(Square Meter)*

- V_{Hyper} Hypervolume of Tesseract *(Meter⁴)*

- $V_{Surface}$ Surface Volume of Tesseract *(Cubic Meter)*

Constants, Functions, Measurements used

- Function: **sqrt**, sqrt(Number)
  A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.
- Measurement: **Length** in Meter (m)
  Length Unit Conversion ↗
- Measurement: **Volume** in Cubic Meter (m³)
  Volume Unit Conversion ↗
- Measurement: **Area** in Square Meter (m²)
  Area Unit Conversion ↗
- Measurement: **Four-Dimensional Hypervolume** in Meter⁴ (m⁴)
  Four-Dimensional Hypervolume Unit Conversion ↗

Check other formula lists

- **Hypersphere Formulas** ↗
- **Tesseract Formulas** ↗

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