

Rechnen mit Einheiten (Schwierigkeitsgrad 5)

$$[1] = \text{A m}^2 \text{ kg} \cdot \text{A} \cdot \text{s}^3 \cdot \text{kg}^3 \cdot 1 =$$

$$[2] = \frac{\text{A m}^2 \cdot \text{A m}}{\text{m}^2 \text{ kg}^2 \cdot \text{A}^2 \text{ m}^2} =$$

$$[3] = \frac{\text{m}^2 \text{ s}^2 \text{ kg}^2}{\text{s}^2 \text{ kg}^2} \cdot \text{s}^3 \cdot \text{A m}^2 \text{ s kg} \cdot \text{m} =$$

$$\frac{\text{A}}{\frac{1}{\text{s}^3 \text{ kg}}}$$

$$[4] = \frac{\text{A kg}}{\text{A}^2} =$$

$$[5] = \frac{(\text{A m s})^3 \cdot \frac{\text{m kg}}{\text{A}^3 \text{ s}}}{\text{A m s}} =$$

$$[6] = \frac{\text{A}^2 \text{ kg}}{\text{m}^3 \text{ kg}^3} =$$

$$\frac{\text{A}^2 \text{ m}^3 \text{ kg}^3}{\text{A kg} \cdot \text{A m kg}}$$

$$[7] = \frac{\frac{\text{m}^2 \text{ s kg}^2}{\text{kg}^3}}{\left((\text{A}^2 \text{ s})^3\right)^2} =$$

$$\frac{\text{A}^2 \text{ s} \cdot \text{m}}{\text{s}^2 \text{ kg}}$$

$$[8] = \frac{\frac{\text{s}^2 \text{ kg}}{\text{kg}}}{\frac{\text{kg}}{\text{A}}} =$$

$$[9] = \frac{\text{A}^3 \text{ s} \cdot \text{A s}}{\text{A m s}^2 \text{ kg} \cdot \text{kg} \cdot 1} =$$

$$[10] = \frac{\text{A}^2 \text{ m}^2 \text{ kg} \cdot \frac{\text{A}^2 \text{ s}^2 \text{ kg}^2}{1}}{\text{m}^2 \text{ kg}^2 \cdot \text{A}^2 \text{ m}^3 \text{ s}^3 \text{ kg}} =$$

$$[11] = \text{A} \cdot \frac{\frac{\text{A}^2 \cdot \text{A s kg}}{\text{A}^2 \text{ m s kg}^2}}{\frac{\text{A}}{\text{s}}} =$$

$$[12] = \text{kg}^2 \cdot \frac{\frac{\text{s}}{\text{A m kg}^2}}{\frac{\text{s}}{\text{A}^3 \text{ s}^3}} =$$

$$[13] = \frac{\text{m s}}{\text{A}^2 \text{ m}} \cdot \text{m kg}^3 \cdot 1 \cdot \text{m s}^2 \text{ kg} =$$

$$[14] = \frac{\left(\frac{\text{s kg}^3}{1}\right)^2 \cdot \text{A m}}{\text{m}^2 \text{ s} \cdot \text{s kg}^2} =$$

$$[15] = \frac{\text{m}^2 \text{ s}^2}{\text{s}^2 \text{ kg}^2} \cdot \text{A m kg} \cdot \frac{\text{A s}^3}{\text{kg}^2} =$$

$$[16] = \left(\frac{\text{A}^3 \text{ m}^2 \text{ s}}{\text{A m}^2 \text{ s kg}^2} \cdot \text{s kg}\right)^2 =$$

$$[17] = \frac{\text{A}^3 \text{ m s}}{\text{A}^3 \text{ m kg}^2 \cdot \text{m kg} \cdot \text{A}^3 \text{ s} \cdot 1} =$$

Lösungen

$$[1] = 1 \text{ A}^2 \text{ m}^2 \text{ s}^3 \text{ kg}^4 \quad [2] = 1 \frac{1}{\text{m kg}}$$

$$[3] = 1 \text{ A m}^5 \text{ s}^4 \text{ kg}$$

$$[4] = 1 \frac{\text{s}^3}{\text{A}^2}$$

$$[5] = 1 \frac{\text{m}^3 \text{ s kg}}{\text{A}}$$

$$[6] = 1 \text{ A}^6 \text{ m kg}^3 \quad [7] = 1 \frac{\text{m}^2}{\text{A}^{12} \text{ s}^5 \text{ kg}}$$

$$[8] = 1 \frac{\text{A}^3 \text{ m}}{\text{s kg}^2}$$

$$[9] = 1 \frac{\text{A}^3}{\text{m kg}^2}$$

$$[10] = 1 \frac{\text{A}^2}{\text{m}^3 \text{ s}}$$

$$[11] = 1 \frac{\text{A}^3}{\text{m kg}}$$

$$[12] = 1 \frac{1}{\text{A}^4 \text{ m s}} \quad [13] = 1 \frac{\text{m}^2 \text{ s}^3 \text{ kg}^4}{\text{A}^2}$$

$$[14] = 1 \frac{\text{A kg}^4}{\text{m}}$$

$$[15] = 1 \frac{\text{A}^2 \text{ m}^3 \text{ s}^3}{\text{kg}^3}$$

$$[16] = 1 \frac{\text{A}^4 \text{ s}^2}{\text{kg}^2}$$

$$[17] = 1 \frac{1}{\text{A}^3 \text{ m kg}^3}$$