

Úlohy na precvičenie vzájomných premen jednotiek hustoty.

6. ročník ZŠ

1. Premeň jednotky hustoty na jednotky hustoty uvedené v zátvorke:

- | | | | |
|---|-----------------|---|-----------------|
| a) 17 g/cm^3 (kg/m^3) = | kg/m^3 | j) 18000 kg/m^3 (g/cm^3) = | g/cm^3 |
| b) $1,9 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 | k) $12,12 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 |
| c) 63 g/cm^3 (kg/m^3) = | kg/m^3 | l) 5 g/cm^3 (kg/m^3) = | kg/m^3 |
| d) $4,5 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 | m) $7,81 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 |
| e) 4600 kg/m^3 (g/cm^3) = | g/cm^3 | n) $0,093 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 |
| f) 1800 kg/m^3 (g/cm^3) = | g/cm^3 | o) $13\,700 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 |
| g) $1,029 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 | p) $0,77 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 |
| h) $1,27 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 | q) $12,24 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 |
| i) $13\,500 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 | r) $4,67 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 |

2. Porovnaj a doplň znaky $<$, $=$, $>$.

- | | | | |
|--------------------------|-----------------------|--------------------------|--------------------------|
| a) 69 g/cm^3 | $6,9 \text{ kg/m}^3$ | e) $1,33 \text{ g/cm}^3$ | $0,00133 \text{ kg/m}^3$ |
| b) $4,5 \text{ g/cm}^3$ | 4500 kg/m^3 | f) $7,42 \text{ kg/m}^3$ | $0,00742 \text{ g/cm}^3$ |
| c) $6,3 \text{ kg/m}^3$ | 630 g/cm^3 | g) $9,3 \text{ g/cm}^3$ | $0,093 \text{ kg/m}^3$ |
| d) $1,95 \text{ g/cm}^3$ | 1950 kg/m^3 | h) 13 g/cm^3 | $13\,000 \text{ kg/m}^3$ |

3. Premeň jednotky hustoty na jednotky hustoty uvedené v zátvorke:

- | | | | |
|--|-----------------|---|-----------------|
| a) 29 g/cm^3 (kg/m^3) = | kg/m^3 | f) 26 g/cm^3 (kg/m^3) = | kg/m^3 |
| b) $1,92 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 | g) $1,719 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 |
| c) 320 kg/m^3 (g/cm^3) = | g/cm^3 | h) 54 kg/m^3 (g/cm^3) = | g/cm^3 |
| d) $9,3 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 | i) 9 g/cm^3 (kg/m^3) = | kg/m^3 |
| e) $0,75 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 | j) 16 kg/m^3 (g/cm^3) = | g/cm^3 |

4. Porovnaj a doplň znaky $<$, $=$, $>$.

- | | | | |
|--------------------------|------------------------|--------------------------|-----------------------|
| a) 32 g/cm^3 | 32000 kg/m^3 | e) 1200 kg/m^3 | $1,2 \text{ g/cm}^3$ |
| b) 5 g/cm^3 | 500 kg/m^3 | f) 78 kg/m^3 | $0,78 \text{ g/cm}^3$ |
| c) $1,29 \text{ g/cm}^3$ | 1290 kg/m^3 | g) 9 g/cm^3 | $0,92 \text{ kg/m}^3$ |
| d) 1500 kg/m^3 | $1,51 \text{ g/cm}^3$ | h) 320 g/cm^3 | $3,30 \text{ kg/m}^3$ |

5. Premeň jednotky hustoty na jednotky hustoty uvedené v zátvorke:

- | | | | |
|---|-----------------|--|-----------------|
| a) $2,9 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 | i) $6,4 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 |
| b) $0,99 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 | j) 1719 kg/m^3 (g/cm^3) = | g/cm^3 |
| c) $19\,300 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 | k) 5 kg/m^3 (g/cm^3) = | g/cm^3 |
| d) $7,87 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 | l) 920 g/cm^3 (kg/m^3) = | kg/m^3 |
| e) $3,75 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 | m) $1\,800 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 |
| f) $11\,300 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 | i) $2,69 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 |
| g) $8,5 \text{ g/cm}^3$ (kg/m^3) = | kg/m^3 | j) 1460 kg/m^3 (g/cm^3) = | g/cm^3 |
| h) $3\,550 \text{ kg/m}^3$ (g/cm^3) = | g/cm^3 | k) $1,26 \text{ g/ml}$ (kg/m^3) = | kg/m^3 |