

NAVODILO: V zvezek prepisi vse, kar ni zapisano z *modro*.

1.URA : PROSTORNINSKE ENOTE

Najprej si samo oglej video:

<https://www.youtube.com/watch?v=sARoBrsJ9Qs>

V zvezek prepisi

Prostornino merimo v

1. kubičnih enotah: OSNOVNA ENOTA je 1 m^3 (en kubični meter je velika kocka z robom 1 m)

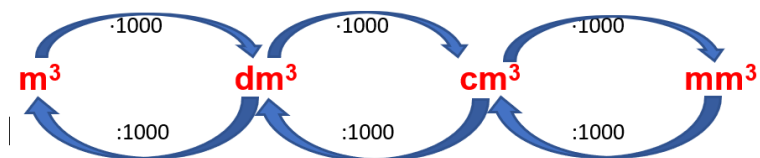
m^3 ...kubični meter

dm^3 ...kubični decimeter

cm^3 ...kubični centimeter

mm^3 ...kubični milimeter

$$\begin{aligned} 1 \text{ m}^3 &= 1000 \text{ dm}^3 \\ 1 \text{ dm}^3 &= 1000 \text{ cm}^3 \\ 1 \text{ cm}^3 &= 1000 \text{ mm}^3 \end{aligned}$$



1. votlih merah: OSNOVNA ENOTA je 1 l (liter)

hl ... hektoliter

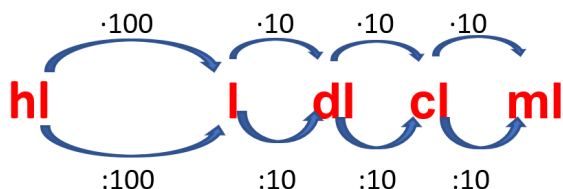
l ... liter

dl.... deciliter

cl.... centiliter

ml... mililiter

$$\begin{aligned} 1 \text{ hl} &= 100 \text{ l} \\ 1 \text{ l} &= 10 \text{ dl} \\ 1 \text{ dl} &= 10 \text{ cl} \\ 1 \text{ cl} &= 10 \text{ ml} \end{aligned}$$



2. URA : **PRETVARJANJE PROSTORNINSKIH ENOT**

PRIMER:

$$2400 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ m}^3$$

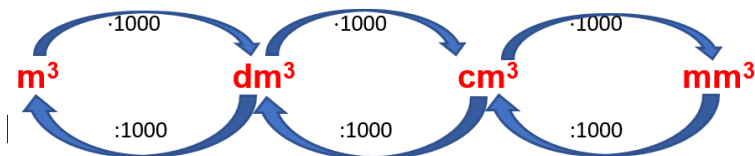
RAZLAGA: Če želimo cm^3 pretvoriti v m^3 , na diagramu vidimo, da moramo deliti z 1 000 000, oziroma vejico premaknemo za 6 mest v levo stran.

0.002400

Torej $2400 \text{ cm}^3 = 0,0024 \text{ m}^3$

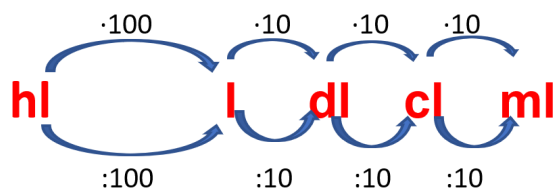
1. VAJA- kubične enote

- a) $7 \text{ m}^3 = \underline{\hspace{2cm}} \text{ dm}^3$
- b) $5 \text{ dm}^3 = \underline{\hspace{2cm}} \text{ mm}^3$
- c) $8 \text{ dm}^3 \ 127 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ cm}^3$
- d) $3 \text{ m}^3 \ 25 \text{ dm}^3 \ 9 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ cm}^3$
- e) $2 \text{ m}^3 \ 4 \text{ mm}^3 = \underline{\hspace{2cm}} \text{ mm}^3$
- f) $5000 \text{ dm}^3 = \underline{\hspace{2cm}} 5 \text{ m}^3$
- g) $182 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ dm}^3$
- h) $56 \text{ mm}^3 = \underline{\hspace{2cm}} \text{ cm}^3$
- i) $7 \text{ dm}^3 = \underline{\hspace{2cm}} \text{ m}^3$
- j) $6798 \text{ mm}^3 = \underline{\hspace{2cm}} \text{ dm}^3$



2. VAJA- votle mere

- a) $3 \text{ l} \ 5 \text{ dl} = \underline{\hspace{2cm}} \text{ dl}$
- b) $9,26 \text{ hl} = \underline{\hspace{2cm}} \text{ l}$
- c) $4,5 \text{ l} = \underline{\hspace{2cm}} \text{ ml}$
- d) $0,04 \text{ l} = \underline{\hspace{2cm}} \text{ dl}$
- e) $32 \text{ l} = \underline{\hspace{2cm}} \text{ hl}$
- f) $345 \text{ ml} = \underline{\hspace{2cm}} \text{ cl}$
- g) $187,5 \text{ cl} = \underline{\hspace{2cm}} \text{ l}$
- h) $0,006 \text{ hl} = \underline{\hspace{2cm}} \text{ ml}$
- i) $0,5 \text{ dl} = \underline{\hspace{2cm}} \text{ l}$
- j) $86 \text{ dl} = \underline{\hspace{2cm}} \text{ hl}$
- k) $3\frac{3}{4} \text{ l} = \underline{\hspace{2cm}} \text{ cl}$
- l) $0,00037 \text{ hl} = \underline{\hspace{2cm}} \text{ cl}$



3.URA : VAJA

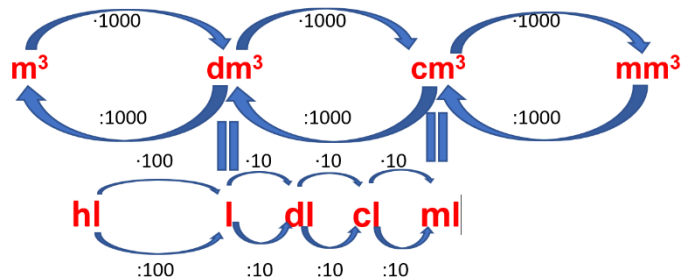
Na videoposnetku si oglejte, da je 1 liter enak 1 dm^3
(1 dm^3 predstavlja volumen kocke z robom 1 dm).

https://www.youtube.com/watch?v=QmSaQA_dCjM

3. VAJA- Povezava votlih mer s kubičnimi = 1 cm^3

1 l = 1 dm³ in 1 ml

- a) $83\,000 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ l}$
- b) $67 \text{ dm}^3 = \underline{\hspace{2cm}} \text{ hl}$
- c) $5 \text{ m}^3 = \underline{\hspace{2cm}} \text{ dl}$
- d) $27 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ cl}$
- e) $0,005 \text{ m}^3 = \underline{\hspace{2cm}} \text{ ml}$
- f) $7 \text{ dm}^3 \ 4 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ l}$
- g) $0,45 \text{ dm}^3 = \underline{\hspace{2cm}} \text{ ml}$
- h) $0,05 \text{ hl} = \underline{\hspace{2cm}} \text{ dm}^3$
- i) $38 \text{ ml} = \underline{\hspace{2cm}} \text{ dm}^3$
- j) $2,03 \text{ l} = \underline{\hspace{2cm}} \text{ cm}^3$
- k) $0,5 \text{ cl} = \underline{\hspace{2cm}} \text{ mm}^3$
- l) $65 \text{ dl} = \underline{\hspace{2cm}} \text{ dm}^3$
- m) $18 \text{ dm}^3 \ 5 \text{ ml} = \underline{\hspace{2cm}} \text{ cm}^3$
- n) $7 \text{ hl} \ 3 \text{ dm}^3 = \underline{\hspace{2cm}} \text{ l}$
- o) $23 \text{ l} \ 500 \text{ mm}^3 = \underline{\hspace{2cm}} \text{ dm}^3$
- p) $5 \text{ cl} \ 5 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ dl}$
- q) $9 \text{ dm}^3 \ 9 \text{ dl} = \underline{\hspace{2cm}} \text{ cl}$
- r) $56 \text{ ml} \ 7 \text{ mm}^3 = \underline{\hspace{2cm}} \text{ cm}^3$



4.URA : PROSTORNINA KVADRA IN KOCKE

V ... oznaka za PROSTORNINO

Oglej si videoposnetek z naslovom PROSTORNINA KVADRA IN KOCKE

<https://www.youtube.com/watch?v=DtF3V4fZrsw>

V zvezek zapiši oba primera iz videoposnetka:

KVADER:

$$a = 4 \text{ cm}$$

$$b = 3 \text{ cm}$$

$$c = 5 \text{ cm}$$

$$V = ?$$

$$V = a \cdot b \cdot c$$

$$V = 4 \cdot 3 \cdot 5$$

$$V = 60 \text{ cm}^3$$

KOCKA:

$$a = 0,7 \text{ dm}$$

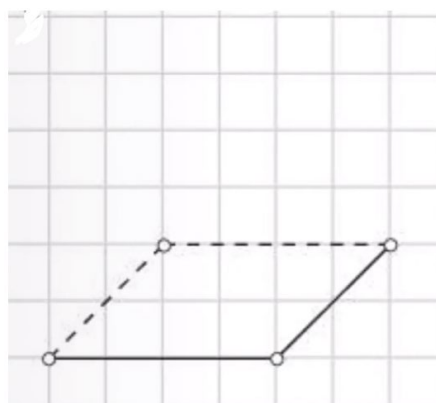
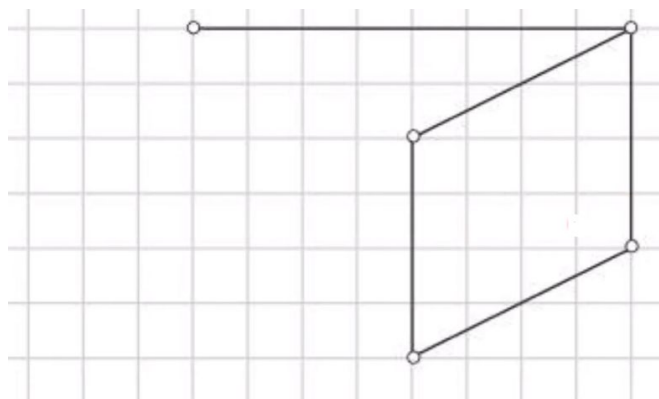
$$V = ?$$

$$V = a \cdot a \cdot a$$

$$V = 7 \cdot 7 \cdot 7$$

$$V = 343 \text{ cm}^3$$

S pomočjo posnetka dopolni do kvadra in kocke



4. VAJA- Učbenik str. 163: 1ab, 7ab

REŠITVE 1. VAJE

- a) $7 \text{ m}^3 = 7 \cdot 1000 \text{ dm}^3 = 7000 \text{ dm}^3$
- b) $5 \text{ dm}^3 = 5 \cdot 1\,000\,000 \text{ mm}^3 = 5\,000\,000 \text{ mm}^3$
- c) $8 \text{ dm}^3 127 \text{ cm}^3 = 8 \cdot 1000 \text{ cm}^3 + 127 \text{ cm}^3 = 8127 \text{ cm}^3$
- d) $3 \text{ m}^3 25 \text{ dm}^3 9 \text{ cm}^3 = 3 \cdot 1\,000\,000 \text{ cm}^3 + 25 \cdot 1000 \text{ cm}^3 + 9 \text{ cm}^3 = 3\,025\,009 \text{ cm}^3$
- e) $2 \text{ m}^3 4 \text{ mm}^3 = 2 \cdot 1\,000\,000 \text{ mm}^3 + 4 \text{ mm}^3 = 2\,000\,000\,004 \text{ mm}^3$
- f) $5000 \text{ dm}^3 = (5000 : 1000) \text{ m}^3 = 5 \text{ m}^3$
- g) $182 \text{ cm}^3 = (182 : 1000) \text{ dm}^3 = 0,182 \text{ dm}^3$
- h) $56 \text{ mm}^3 = (56 : 1000) \text{ cm}^3 = 0,056 \text{ cm}^3$
- i) $7 \text{ dm}^3 = (7 : 1000) \text{ m}^3 = 0,007 \text{ m}^3$
- j) $6798 \text{ mm}^3 = (6798 : 1\,000\,000) \text{ dm}^3 = 0,006798 \text{ dm}^3$

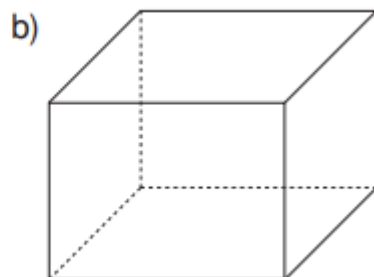
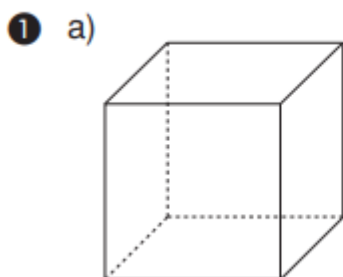
REŠITVE 2. VAJE

- a) $3 \text{ l } 5 \text{ dl} = 3 \cdot 10 \text{ dl} + 5 \text{ dl} = 35 \text{ dl}$
- b) $9,26 \text{ hl} = 9,26 \cdot 100 \text{ l} = 926 \text{ l}$
- c) $4,5 \text{ l} = 4,5 \cdot 1000 \text{ ml} = 4500 \text{ ml}$
- d) $0,04 \text{ l} = 0,04 \cdot 10 \text{ dl} = 0,4 \text{ dl}$
- e) $32 \text{ l} = (32 : 100) \text{ hl} = 0,32 \text{ hl}$
- f) $345 \text{ ml} = (345 : 10) \text{ cl} = 34,5 \text{ cl}$
- g) $187,5 \text{ cl} = (187,5 : 100) \text{ l} = 1,875 \text{ l}$
- h) $0,006 \text{ hl} = 0,006 \cdot 100\,000 \text{ ml} = 600 \text{ ml}$
- i) $0,5 \text{ dl} = (0,5 : 10) \text{ l} = 0,05 \text{ l}$
- j) $86 \text{ dl} = (86 : 1000) \text{ hl} = 0,086 \text{ hl}$
- k) $3\frac{3}{4} \text{ l} = 300 \text{ cl} + 75 \text{ cl} = 375 \text{ cl}$
- l) $0,00037 \text{ hl} = 0,00037 \cdot 10\,000 \text{ cl} = 3,7 \text{ cl}$

REŠITVE 3. VAJE

- a) $83\,000 \text{ cm}^3 = 83 \text{ dm}^3 = 83 \text{ l}$
- b) $67 \text{ dm}^3 = 67 \text{ l} = 0,67 \text{ hl}$
- c) $5 \text{ m}^3 = 5000 \text{ dm}^3 = 5000 \text{ l} = 50\,000 \text{ dl}$
- d) $27 \text{ cm}^3 = 27 \text{ ml} = 2,7 \text{ cl}$
- e) $0,005 \text{ m}^3 = 5 \text{ dm}^3 = 5 \text{ l} = 5000 \text{ ml}$
- f) $7 \text{ dm}^3 4 \text{ cm}^3 = 7004 \text{ cm}^3 = 7004 \text{ ml} = 7,004 \text{ l}$
- g) $0,45 \text{ dm}^3 = 450 \text{ cm}^3 = 450 \text{ ml}$
- h) $0,05 \text{ hl} = 5 \text{ l} = 5 \text{ dm}^3$
- i) $38 \text{ ml} = 38 \text{ cm}^3 = 0,038 \text{ dm}^3$
- j) $2,03 \text{ l} = 203 \text{ cl} = 2030 \text{ ml} = 2030 \text{ cm}^3$
- k) $0,5 \text{ cl} = 5 \text{ ml} = 5 \text{ cm}^3 = 5000 \text{ mm}^3$
- l) $65 \text{ dl} = 6,5 \text{ l} = 6,5 \text{ dm}^3$
- m) $18 \text{ dm}^3 5 \text{ ml} = 18\,000 \text{ cm}^3 + 5 \text{ cm}^3 = 18\,005 \text{ cm}^3$
- n) $7 \text{ hl } 3 \text{ dm}^3 = 700 \text{ l} + 3 \text{ l} = 703 \text{ l}$
- o) $23 \text{ l } 500 \text{ mm}^3 = 23 \text{ dm}^3 + 0,5 \text{ cm}^3 = 23 \text{ dm}^3 + 0,0005 \text{ dm}^3 = 23,0005 \text{ dm}^3$
- p) $5 \text{ cl } 5 \text{ cm}^3 = 50 \text{ ml} + 5 \text{ ml} = 55 \text{ ml} = 0,55 \text{ dl}$
- q) $9 \text{ dm}^3 9 \text{ dl} = 9000 \text{ cm}^3 + 900 \text{ ml} = 9900 \text{ ml} = 990 \text{ cl}$
- r) $56 \text{ ml } 7 \text{ mm}^3 = 56 \text{ cm}^3 + 0,007 \text{ cm}^3 = 56,007 \text{ cm}^3$

REŠITVE 4. VAJE



7 a) 486 l

b) 64 l