

KĀ PĀRVEIDOT MĒRVIENĪBAS

Pārveidojot mērvienības, liec lietā savas matemātikas zināšanas par proporcijām!

Piemērs. Pārveido 3 cm metros!

1


 **KO TU ZINI?** IR ZINĀMA PAMATSAKARĪBA: 1 M = 100 CM.

2

 **PIERAKSTI!** VEIDO PROPORCIJU TĀ, KA DOTAJAM PIEMĒRAM ZEM SVĪTRAS RAKSTI ATBILSTOŠO MĒRVIENĪBU.

$$\frac{3 \text{ cm}}{100 \text{ cm}} = \frac{x \text{ m}}{1 \text{ m}}$$

3

 **APRĒĶINI!** REIZINOT "PA KRUSTIŅU", IZSAKI UN APRĒĶINI NEZINĀMO:

$$\frac{3 \text{ cm}}{100 \text{ cm}} = \frac{x \text{ m}}{1 \text{ m}} \quad x = \frac{3 \cdot 1}{100} = \frac{3}{100} = 0,03 \text{ m}$$

dala reizina

Ilze
Klints

FIZIKA

Uzdevumu burtnīca

8. klasei

VIETA PIERAKSTIEM



MĒRVENĪBU PĀRVEIDOŠANA

Laika mērvienības

SI mērvienība: sekunde s

1 h = 60 min = 3600 s
1 min = 60 s
1 d. = 24 h
1 gads = 52 ned. = 365 d.

0,6 h = s
23 min = s
2 min = s
5 h = s

4 d. = min
3 d. = h
0,18 h = min
3,5 h = min

2 ned. = d.
0,5 gadi = d.
14 d. = h
30 d. = h

30 s = min
5200 s = min
278 s = min
1500 s = min
36 s = min
17 s = min
90 s = min

600 min = h
10 min = h
150 min = h
970 min = h
480 min = h
46 min = h
50 min = h

720 s = h
1800 s = h
55 s = h
900 s = h
3800 s = h
2600 s = h
10 s = h

1 gads = ned. = d. = h = min = s
5 gadi = ned. = d. = h = min = s
300 gadi = d. = h = s
1000 gadi = d.

100 h = d.
1000 h = d. = ned.
1000 d. = gadi
2555 d. = gadi
250 000 min = h = d. = ned.
500 000 min = h = d. = ned.
900 000 s = min = h = d.
300 000 000 s = h = d. = gadi
 $2 \cdot 10^8$ s = h = d. = gadi

Garuma mērvienības

SI mērvienība: metrs **m**

$$1 \text{ km} = 1000 \text{ m}$$

$$1 \text{ m} = 10 \text{ dm} = 100 \text{ cm} = 1000 \text{ mm} = 1\,000\,000 \text{ }\mu\text{m}$$

$$1 \text{ dm} = 10 \text{ cm} = 100 \text{ mm}$$

$$1 \text{ cm} = 10 \text{ mm}$$

$$1 \text{ mm} = 1000 \text{ }\mu\text{m}$$

$$0,6 \text{ km} = \dots\dots\dots \text{ m}$$

$$20 \text{ m} = \dots\dots\dots \text{ cm}$$

$$9 \text{ dm} = \dots\dots \text{ cm} = \dots\dots\dots \text{ mm}$$

$$0,02 \text{ km} = \dots\dots\dots \text{ m}$$

$$0,5 \text{ m} = \dots\dots\dots \text{ cm}$$

$$0,85 \text{ m} = \dots\dots \text{ dm} = \dots\dots\dots \text{ cm}$$

$$0,001 \text{ km} = \dots\dots\dots \text{ m}$$

$$0,06 \text{ m} = \dots\dots\dots \text{ cm}$$

$$0,04 \text{ m} = \dots\dots \text{ dm} = \dots\dots\dots \text{ mm}$$

$$25 \text{ km} = \dots\dots\dots \text{ m}$$

$$0,7 \text{ m} = \dots\dots\dots \text{ mm}$$

$$12 \text{ m} = \dots\dots \text{ cm} = \dots\dots\dots \text{ mm}$$

$$10 \text{ mm} = \dots\dots \text{ cm}$$

$$5 \text{ cm} = \dots\dots \text{ dm}$$

$$50 \text{ m} = \dots\dots \text{ km}$$

$$25 \text{ mm} = \dots\dots \text{ cm}$$

$$0,2 \text{ cm} = \dots\dots \text{ dm}$$

$$4 \text{ m} = \dots\dots \text{ km}$$

$$2 \text{ mm} = \dots\dots \text{ dm}$$

$$35 \text{ cm} = \dots\dots \text{ m}$$

$$0,1 \text{ m} = \dots\dots \text{ km}$$

$$6 \text{ mm} = \dots\dots \text{ m}$$

$$700 \text{ cm} = \dots\dots \text{ m}$$

$$600 \text{ m} = \dots\dots \text{ km}$$

$$0,8 \text{ mm} = \dots\dots \text{ m}$$

$$68 \text{ cm} = \dots\dots \text{ dm}$$

$$8000 \text{ m} = \dots\dots \text{ km}$$

$$0,7 \text{ mm} = \dots\dots \text{ cm}$$

$$0,06 \text{ cm} = \dots\dots \text{ m}$$

$$100\,000 \text{ m} = \dots\dots \text{ km}$$

$$20 \text{ }\mu\text{m} = \dots\dots\dots \text{ m}$$

$$9650 \text{ }\mu\text{m} = \dots\dots\dots \text{ m} = \dots\dots\dots \text{ cm}$$

$$5 \text{ }\mu\text{m} = \dots\dots\dots \text{ m}$$

$$3000 \text{ }\mu\text{m} = \dots\dots\dots \text{ m} = \dots\dots\dots \text{ cm}$$

$$0,6 \text{ }\mu\text{m} = \dots\dots\dots \text{ m}$$

$$275 \text{ }\mu\text{m} = \dots\dots\dots \text{ m} = \dots\dots\dots \text{ mm}$$

$$500 \text{ }\mu\text{m} = \dots\dots\dots \text{ m}$$

$$800\,000 \text{ }\mu\text{m} = \dots\dots\dots \text{ m} = \dots\dots\dots \text{ mm}$$

$$7 \text{ km} = \dots\dots\dots \text{ m} = \dots\dots\dots \text{ cm} = \dots\dots\dots \text{ mm}$$

$$0,06 \text{ km} = \dots\dots\dots \text{ m} = \dots\dots\dots \text{ cm} = \dots\dots\dots \text{ mm} = \dots\dots\dots \text{ }\mu\text{m}$$

$$0,9 \text{ km} = \dots\dots\dots \text{ m} = \dots\dots\dots \text{ dm} = \dots\dots\dots \text{ cm} = \dots\dots\dots \text{ mm}$$

$$15 \text{ km} = \dots\dots\dots \text{ m} = \dots\dots\dots \text{ dm} = \dots\dots\dots \text{ cm} = \dots\dots\dots \text{ mm}$$

$$5632 \text{ cm} = \dots\dots\dots \text{ km}$$

$$600 \text{ mm} = \dots\dots\dots \text{ km}$$

$$42 \text{ dm} = \dots\dots\dots \text{ km}$$

$$70\,000 \text{ }\mu\text{m} = \dots\dots\dots \text{ km}$$

$$150 \cdot 10^6 \text{ km} = \dots\dots\dots \text{ m}$$

Laukuma mērvienības

SI mērvienība: kvadrātmeters m^2

$$1 \text{ m}^2 = 10\,000 \text{ cm}^2 = 1\,000\,000 \text{ mm}^2$$

$$1 \text{ km}^2 = 1\,000\,000 \text{ m}^2 = 100 \text{ ha}$$

$$1 \text{ ha} = 10\,000 \text{ m}^2$$

1 m = 100 cm



Laukums

$$1 \text{ m} \cdot 1 \text{ m} = 1 \text{ m}^2$$

$$100 \text{ cm} \cdot 100 \text{ cm} = 10\,000 \text{ cm}^2$$

1 m = 100 cm

$$2 \text{ m}^2 = \dots\dots\dots \text{ cm}^2$$

$$4,5 \text{ m}^2 = \dots\dots\dots \text{ cm}^2$$

$$69,8 \text{ m}^2 = \dots\dots\dots \text{ cm}^2$$

$$0,8 \text{ m}^2 = \dots\dots\dots \text{ cm}^2$$

$$25 \text{ km}^2 = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ ha}$$

$$0,069 \text{ km}^2 = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ ha}$$

$$0,8 \text{ km}^2 = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ ha}$$

$$0,0785 \text{ km}^2 = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ ha}$$

$$4 \text{ ha} = \dots\dots\dots \text{ m}^2$$

$$0,5 \text{ ha} = \dots\dots\dots \text{ m}^2$$

$$0,068 \text{ ha} = \dots\dots\dots \text{ m}^2$$

$$38 \text{ ha} = \dots\dots\dots \text{ m}^2$$

$$7 \text{ m}^2 = \dots\dots\dots \text{ mm}^2$$

$$0,98 \text{ m}^2 = \dots\dots\dots \text{ mm}^2$$

$$0,055 \text{ m}^2 = \dots\dots\dots \text{ mm}^2$$

$$0,00345 \text{ m}^2 = \dots\dots\dots \text{ mm}^2$$

$$54 \text{ cm}^2 = \dots\dots\dots \text{ m}^2$$

$$272 \text{ cm}^2 = \dots\dots\dots \text{ m}^2$$

$$4580 \text{ cm}^2 = \dots\dots\dots \text{ m}^2$$

$$70\,000 \text{ cm}^2 = \dots\dots\dots \text{ m}^2$$

$$0,8 \text{ cm}^2 = \dots\dots\dots \text{ m}^2$$

$$9 \text{ mm}^2 = \dots\dots\dots \text{ m}^2$$

$$856 \text{ mm}^2 = \dots\dots\dots \text{ m}^2$$

$$6200 \text{ mm}^2 = \dots\dots\dots \text{ m}^2$$

$$860\,000 \text{ mm}^2 = \dots\dots\dots \text{ m}^2$$

$$5\,000\,000 \text{ mm}^2 = \dots\dots\dots \text{ m}^2$$

$$0,0055 \text{ km}^2 = \dots\dots\dots \text{ ha} = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ cm}^2$$

$$0,000068 \text{ km}^2 = \dots\dots\dots \text{ ha} = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ cm}^2$$

$$3 \text{ ha} = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ cm}^2$$

$$0,0031 \text{ ha} = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ cm}^2$$

$$100\,000 \text{ cm}^2 = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ ha} = \dots\dots\dots \text{ km}^2$$

$$5\,600\,000 \text{ cm}^2 = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ ha} = \dots\dots\dots \text{ km}^2$$

$$21\,000\,000 \text{ cm}^2 = \dots\dots\dots \text{ m}^2 = \dots\dots\dots \text{ ha} = \dots\dots\dots \text{ km}^2$$

Tilpuma mērvienības

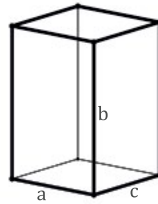
SI mērvienība: kubikmetrs m^3

$$1 m^3 = 1000 dm^3 = 1000 l = 1\,000\,000 cm^3$$

$$1 l = 1000 ml = 1000 cm^3$$

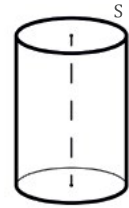
$$1 ml = 1 cm^3$$

$$1 dm^3 = 1 l$$



paralēlskaldnis

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



cilindrs

$$V = S \cdot h$$

$2 m^3 = \dots\dots\dots l$

$10 l = \dots\dots\dots ml$

$5 ml = \dots\dots\dots cm^3$

$0,5 m^3 = \dots\dots\dots l$

$24 l = \dots\dots\dots cm^3$

$28 ml = \dots\dots\dots cm^3$

$0,089 m^3 = \dots\dots\dots l$

$0,7 l = \dots\dots\dots ml$

$0,65 cm^3 = \dots\dots\dots ml$

$4,86 m^3 = \dots\dots\dots l$

$0,05 l = \dots\dots\dots cm^3$

$900 cm^3 = \dots\dots\dots ml$

$25 l = \dots\dots\dots m^3$

$15 cm^3 = \dots\dots\dots m^3$

$500 cm^3 = \dots\dots\dots m^3$

$7 l = \dots\dots\dots m^3$

$7 ml = \dots\dots\dots m^3$

$0,8 ml = \dots\dots\dots m^3$

$938 l = \dots\dots\dots m^3$

$150 ml = \dots\dots\dots m^3$

$35\,000 ml = \dots\dots\dots m^3$

$0,5 l = \dots\dots\dots m^3$

$2000 cm^3 = \dots\dots\dots m^3$

$460\,000 cm^3 = \dots\dots\dots m^3$

$0,75 m^3 = \dots\dots\dots dm^3 = \dots\dots\dots l = \dots\dots\dots ml = \dots\dots\dots cm^3$

$0,084 m^3 = \dots\dots\dots dm^3 = \dots\dots\dots l = \dots\dots\dots ml = \dots\dots\dots cm^3$

$0,00965 m^3 = \dots\dots\dots dm^3 = \dots\dots\dots l = \dots\dots\dots ml = \dots\dots\dots cm^3$

$0,0000324 m^3 = \dots\dots\dots dm^3 = \dots\dots\dots l = \dots\dots\dots ml = \dots\dots\dots cm^3$

$8956 cm^3 = \dots\dots\dots l = \dots\dots\dots m^3$

$600 cm^3 = \dots\dots\dots l = \dots\dots\dots m^3$

$94\,000 cm^3 = \dots\dots\dots l = \dots\dots\dots m^3$

$150\,000 cm^3 = \dots\dots\dots l = \dots\dots\dots m^3$

$4\,658\,000 cm^3 = \dots\dots\dots l = \dots\dots\dots m^3$

Masas mērvienības

SI mērvienība: kilograms **kg**

$$1 \text{ t} = 10 \text{ cnt} = 1000 \text{ kg} = 1\,000\,000 \text{ g}$$

$$1 \text{ cnt} = 100 \text{ kg}$$

$$1 \text{ kg} = 1000 \text{ g} = 1\,000\,000 \text{ mg}$$

$$1 \text{ g} = 1000 \text{ mg} = 1\,000\,000 \text{ } \mu\text{g}$$

$$3 \text{ kg} = \dots\dots\dots \text{ g}$$

$$9 \text{ t} = \dots\dots\dots \text{ kg}$$

$$5 \text{ cnt} = \dots\dots\dots \text{ kg}$$

$$50 \text{ kg} = \dots\dots\dots \text{ g}$$

$$0,8 \text{ t} = \dots\dots\dots \text{ kg}$$

$$6,98 \text{ cnt} = \dots\dots\dots \text{ kg}$$

$$0,28 \text{ kg} = \dots\dots\dots \text{ g}$$

$$0,056 \text{ t} = \dots\dots\dots \text{ kg}$$

$$56 \text{ g} = \dots\dots\dots \text{ mg}$$

$$0,06 \text{ kg} = \dots\dots\dots \text{ g}$$

$$1,56 \text{ t} = \dots\dots\dots \text{ kg}$$

$$0,007 \text{ g} = \dots\dots\dots \text{ mg}$$

$$17 \text{ g} = \dots\dots\dots \text{ kg}$$

$$50 \text{ kg} = \dots\dots\dots \text{ t}$$

$$500 \text{ g} = \dots\dots\dots \text{ t}$$

$$200 \text{ g} = \dots\dots\dots \text{ kg}$$

$$6,8 \text{ kg} = \dots\dots\dots \text{ t}$$

$$4000 \text{ g} = \dots\dots\dots \text{ t}$$

$$0,005 \text{ g} = \dots\dots\dots \text{ kg}$$

$$0,65 \text{ kg} = \dots\dots\dots \text{ t}$$

$$65\,000 \text{ g} = \dots\dots\dots \text{ t}$$

$$2,6 \text{ g} = \dots\dots\dots \text{ kg}$$

$$700 \text{ kg} = \dots\dots\dots \text{ t}$$

$$9 \text{ g} = \dots\dots\dots \text{ t}$$

$$0,08 \text{ t} = \dots\dots\dots \text{ kg} = \dots\dots\dots \text{ g}$$

$$0,9 \text{ t} = \dots\dots\dots \text{ kg} = \dots\dots\dots \text{ g}$$

$$17 \text{ kg} = \dots\dots\dots \text{ g} = \dots\dots\dots \text{ mg}$$

$$0,0066 \text{ kg} = \dots\dots\dots \text{ g} = \dots\dots\dots \text{ mg} = \dots\dots\dots \text{ } \mu\text{g}$$

$$1200 \text{ mg} = \dots\dots\dots \text{ g} = \dots\dots\dots \text{ kg} = \dots\dots\dots \text{ t}$$

$$25\,600 \text{ mg} = \dots\dots\dots \text{ g} = \dots\dots\dots \text{ kg} = \dots\dots\dots \text{ t}$$

$$680 \text{ } \mu\text{g} = \dots\dots\dots \text{ mg} = \dots\dots\dots \text{ g} = \dots\dots\dots \text{ kg}$$

$$970\,000 \text{ } \mu\text{g} = \dots\dots\dots \text{ mg} = \dots\dots\dots \text{ g} = \dots\dots\dots \text{ kg}$$

Blīvuma mērvienības

SI mērvienība: kilograms uz kubikmetru **kg/m³**

$$1 \text{ g/cm}^3 = 1000 \text{ kg/m}^3$$

$$1,5 \text{ g/cm}^3 = \dots\dots\dots \text{ kg/m}^3$$

$$2600 \text{ kg/m}^3 = \dots\dots\dots \text{ g/cm}^3$$

$$7,8 \text{ g/cm}^3 = \dots\dots\dots \text{ kg/m}^3$$

$$800 \text{ kg/m}^3 = \dots\dots\dots \text{ g/cm}^3$$

$$13,5 \text{ g/cm}^3 = \dots\dots\dots \text{ kg/m}^3$$

$$300 \text{ kg/m}^3 = \dots\dots\dots \text{ g/cm}^3$$

$$0,79 \text{ g/cm}^3 = \dots\dots\dots \text{ kg/m}^3$$

$$11\,400 \text{ kg/m}^3 = \dots\dots\dots \text{ g/cm}^3$$



