

Exercises of Unit conversion

1) Calculate the following conversions:

- a) Convert to g: $7 \text{ hg} + 37 \text{ dag} + 89 \text{ cg}$.
- b) Convert to dg: $1.5 \text{ hg} + 4 \text{ dag}$.
- c) Convert to g: $6.5 \text{ hg} + 25 \text{ cg} + 46 \text{ mg}$.
- d) Convert to mg: $50 \text{ hg} + 23 \text{ dg}$.
- e) Convert to kg: $26 \text{ hg} + 77 \text{ cg}$.
- f) Convert to hg: $15 \text{ kg} + 8200 \text{ dg} + 2000 \text{ cg}$.

2) Calculate the following conversions:

- a) Convert to hm: $89 \text{ dam} + 96 \text{ dm}$.
- b) Convert to dam: 8300 dm .
- c) Convert to m: $3.2 \text{ dam} + 4300 \text{ dm} + 7200 \text{ cm}$.
- d) Convert to dm: $42 \text{ m} + 69 \text{ mm}$.
- e) Convert to m: $1.3 \text{ dam} + 2500 \text{ mm}$.
- f) Convert to mm: $73 \text{ m} + 7200 \text{ dm}$.

3) Calculate the following conversions:

- a) Convert to cm^2 : $66 \text{ m}^2 + 78 \text{ mm}^2$.
- b) Convert to mm^2 : $63 \text{ m}^2 + 120 \text{ dm}^2$.
- c) Convert to cm^2 : 38000 mm^2 .
- d) Convert to hm^2 : $99 \text{ m}^2 + 5900 \text{ cm}^2$.
- e) Convert to dam^2 : 85 m^2 .
- f) Convert to m^2 : $400 \text{ dm}^2 + 78 \text{ cm}^2$.

4) Calculate the following conversions:

- a) Convert to ha: $15 \text{ m}^2 + 780 \text{ dm}^2 + 33 \text{ mm}^2$.
- b) Convert to hm^2 : 29 ca .
- c) Convert to ca: $44 \text{ m}^2 + 210 \text{ dm}^2$.
- d) Convert to m^2 : 65 ca .
- e) Convert to a: $44 \text{ dm}^2 + 23 \text{ mm}^2$.
- f) Convert to cm^2 : 57 ca .

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5) Calculate the following conversions:

- a) Convert to mm^3 : 56 dm^3 .
- b) Convert to cm^3 : 65 mm^3 .
- c) Convert to hm^3 : 0.059 km^3 .
- d) Convert to m^3 : 0.084 km^3 .
- e) Convert to m^3 : 290 dm^3 .
- f) Convert to dm^3 : 5400 cm^3 .

6) Calculate the following conversions:

- a) Convert to hL: $69 \text{ kL} + 54 \text{ daL} + 3700 \text{ cL}$.
- b) Convert to daL: 1.3 hL .
- c) Convert to L: $0.42 \text{ kL} + 94 \text{ daL} + 92 \text{ cL}$.
- d) Convert to dL: $6.9 \text{ hL} + 8900 \text{ mL}$.
- e) Convert to cL: $1.1 \text{ daL} + 3100 \text{ dL}$.
- f) Convert to mL: $8.2 \text{ daL} + 97 \text{ L} + 7600 \text{ dL} + 8500 \text{ cL}$.

7) Calculate the following conversions:

- a) Convert to kL: $24 \text{ dm}^3 + 86 \text{ cm}^3$.
- b) Convert to m^3 : $91 \text{ L} + 6200 \text{ mL}$.
- c) Convert to mL: 1300 cm^3 .
- d) Convert to dm^3 : $88 \text{ L} + 9300 \text{ mL}$.
- e) Convert to L: $3800 \text{ cm}^3 + 90000 \text{ mm}^3$.
- f) Convert to mm^3 : 7800 mL .

8) Calculate the following conversions:

- | | | |
|---|---|--|
| a) $-192 \text{ }^\circ\text{F} = \text{_____ } ^\circ\text{C}$ | b) $0 \text{ }^\circ\text{C} = \text{_____ } ^\circ\text{F}$ | c) $212 \text{ }^\circ\text{F} = \text{_____ } ^\circ\text{C}$ |
| d) $100 \text{ }^\circ\text{C} = \text{_____ } ^\circ\text{F}$ | e) $-2 \text{ }^\circ\text{F} = \text{_____ } ^\circ\text{C}$ | f) $72 \text{ }^\circ\text{C} = \text{_____ } ^\circ\text{F}$ |

9) Calculate the following conversions:

- | | | |
|---|--|--|
| a) $362 \text{ K} = \text{_____ } ^\circ\text{C}$ | b) $-73 \text{ }^\circ\text{F} = \text{_____ K}$ | c) $31 \text{ K} = \text{_____ } ^\circ\text{F}$ |
| d) $57 \text{ }^\circ\text{C} = \text{_____ } ^\circ\text{F}$ | e) $-94 \text{ }^\circ\text{F} = \text{_____ } ^\circ\text{C}$ | f) $170 \text{ }^\circ\text{C} = \text{_____ K}$ |

10) Calculate the following conversions:

- | | | |
|--|--|--|
| a) $11.4 \text{ yd} = \text{_____ in}$ | b) $34.2 \text{ in} = \text{_____ cm}$ | c) $28.1 \text{ in} = \text{_____ ft}$ |
| d) $177 \text{ cm} = \text{_____ in}$ | e) $420 \text{ ft} = \text{_____ cm}$ | f) $6.8 \text{ ft} = \text{_____ in}$ |

Exercises of Unit conversion

11) Calculate the following conversions:

a) 3090 g = _____ lb

b) 28 oz = _____ g

c) 79 oz = _____ g

d) 196 oz = _____ g

e) 6230 g = _____ lb

f) 48.3 lb = _____ kg

Answers:

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|-----|-------------------------------|-------------------------------|------------------------------|-----------------|
| 1) | a) 1070.89 g | b) 1900 dg | c) 650.296 g | d) 5 002 300 mg |
| | e) 2.600 77 kg | f) 158.4 hg | | |
| 2) | a) 8.996 hm | b) 83 dam | c) 534 m | d) 420.69 dm |
| | e) 15.5 m | f) 793 000 mm | | |
| 3) | a) 660 000.78 cm ² | b) 64 200 000 mm ² | c) 380 cm ² | |
| | d) 0.009 959 hm ² | e) 0.85 dam ² | f) 4.0078 m ² | |
| 4) | a) 0.002 280 003 3 ha | b) 0.0029 hm ² | c) 46.1 ca | |
| | d) 65 m ² | e) 0.004 400 23 a | f) 570 000 cm ² | |
| 5) | a) 56 000 000 mm ³ | b) 0.065 cm ³ | c) 59 hm ³ | |
| | d) 84 000 000 m ³ | e) 0.29 m ³ | f) 5.4 dm ³ | |
| 6) | a) 695.77 hL | b) 13 daL | c) 1360.92 L | d) 6989 dL |
| | e) 32 100 cL | f) 1 024 000 mL | | |
| 7) | a) 0.024 086 kL | b) 0.0972 m ³ | c) 1300 mL | |
| | d) 97.3 dm ³ | e) 3.89 L | f) 7 800 000 mm ³ | |
| 8) | a) -192 °F = -124.44 °C | b) 0 °C = 32 °F | c) 212 °F = 100 °C | |
| | d) 100 °C = 212 °F | e) -2 °F = -18.89 °C | f) 72 °C = 161.6 °F | |
| 9) | a) 362 K = 88.85 °C | b) -73 °F = 214.82 K | c) 31 K = -403.87 °F | |
| | d) 57 °C = 134.6 °F | e) -94 °F = -70 °C | f) 170 °C = 443.15 K | |
| 10) | a) 11.4 yd = 410.4 in | b) 34.2 in = 86.868 cm | c) 28.1 in = 2.342 ft | |
| | d) 177 cm = 69.685 in | e) 420 ft = 12801.6 cm | f) 6.8 ft = 81.6 in | |
| 11) | a) 3090 g = 6.812 lb | b) 28 oz = 793.787 g | c) 79 oz = 2239.612 g | |
| | d) 196 oz = 5556.507 g | e) 6230 g = 13.735 lb | f) 48.3 lb = 21.909 kg | |