

Pratique:

- 1) a. 5,6 m = _____ cm
 b. 7,4 cm = _____ mm
 c. 0,098 m = _____ mm

- d. 1,4 km = _____ cm
 e. 1250 mm = _____ m
 f. 9500 cm = _____ km

- 2) 1. 2 pi = _____ po
 2. 17 vg = _____ pi
 3. 15 pi = _____ po
 4. 18 291 pi = _____ mi
 5. 4,89 mi = _____ pi
 6. 289 po = _____ vg
 7. 14 milles = _____ po

8. 150 vg = _____ po
 9. 2,014 mi = _____ pi
 10. 242 po = _____ pi
 11. 16 mi = _____ vg
 12. 281 po = _____ pi
 13. 367 vg = _____ po
 14. 17 po = _____ mi

- 3) a. 80 km = _____ mi
 b. 6 mi = _____ km
 c. 100 vg = _____ m
 d. 500 m = _____ pi
 e. 60 cm = _____ po

- f. 5 pi = _____ mm
 g. 2000 po = _____ pi
 h. 1500 cm = _____ m
 i. 50 vg = _____ pi
 j. 100 po = _____ mm

4) Change à pouce

- a) 5'11" = $\frac{5 \times 12 + 11}{12}$ = 71 po
 b) 1'5" = $\frac{1 \times 12 + 5}{12}$ = 17 po
 c) 25' = 25×12 = 300 po
 d) 25,5' = $300 + 6$ = 306 po
 e) 4'6" = _____
 f) 6,25' = _____

25' 5"
 25,5'

5) Change à pied et pouce

- a) 162 po = $\frac{162}{12}$ = 13' 6"
 b) 1650 po = $\frac{1650}{12}$ = 137' 6"
 c) 55 po = $\frac{55}{12}$ = 4' 7"
 d) 1143 m = _____
 e) 508 cm = _____

$$1.e) 1250 \text{ mm} = \underline{1,25} \text{ m}$$

1250 mm	1 cm	1 m	=	$\frac{1250}{1000}$
	10 mm	100 cm		= 1,25

$$2)s) 4,89 \text{ mi} = \underline{\hspace{2cm}} \text{ pi}$$

4,89 mi	1760 vg	3 pi	=	25 819,2 pi
	1 mi	1 vg		

$$14) 17 \text{ po} = \underline{0,0003} \text{ mi} \quad \text{~~0,0003 mi}~~ \quad \text{~~0,0003 mi~~}$$

17 po	1 pi	1 vg	1 mi	=	$\frac{17}{63360}$
	12 po	3 pi	1760 vg		= 0,0003

$$3)e) 60 \text{ cm} = \underline{23,6} \text{ po}$$

60 cm	1 po	=
	2,54 cm	

TEMPÉRATURE

SI à impérial

$$F = \frac{9}{5}C + 32$$

Impérial à SI

$$C = \frac{5}{9}(F - 32)$$

Ex:

$$25\text{ }^{\circ}\text{C} = \text{_____ }^{\circ}\text{F}$$

$$f = \frac{9}{5}(25) + 32 \\ = 77^{\circ}\text{F}$$

$$15\text{ }^{\circ}\text{F} = \text{_____ }^{\circ}\text{C}$$

$$C = \frac{5}{9}(15 - 32) \\ = \frac{5}{9}(-17) \\ = -9,4^{\circ}\text{C}$$

Pratique:

a. $100\text{ }^{\circ}\text{C} = \text{_____ }^{\circ}\text{F}$

d. $95\text{ }^{\circ}\text{F} = \text{_____ }^{\circ}\text{C}$

b. $0\text{ }^{\circ}\text{C} = \text{_____ }^{\circ}\text{F}$

e. $-40\text{ }^{\circ}\text{F} = \underline{-40}\text{ }^{\circ}\text{C}$

c. $400\text{ }^{\circ}\text{F} = \underline{204}\text{ }^{\circ}\text{C}$

f. $-20\text{ }^{\circ}\text{C} = \underline{-4}\text{ }^{\circ}\text{F}$

$$C = \frac{5}{9}(F - 32) \\ = \frac{5}{9}(400 - 32)$$

$$F = \frac{9}{5}(-20) + 32$$

convertir et

1) -34°C _____

6) 39°C _____

2) 30°F _____

7) -14°C _____

3) 110°F _____

8) -33°C _____

4) 3°F _____

9) 100°F _____

5) -22°C _____

10) 34°F _____

1) -34° C $\underline{(-34 \times 9/5) + 32} = -29.2^{\circ} \text{ F}$

2) 30° F $\underline{(30 - 32) \times 5/9} = -1.11^{\circ} \text{ C}$

3) 110° F $\underline{(110 - 32) \times 5/9} = 43.33^{\circ} \text{ C}$

4) 3° F $\underline{(3 - 32) \times 5/9} = -16.11^{\circ} \text{ C}$

5) -22° C $\underline{(-22 \times 9/5) + 32} = -7.6^{\circ} \text{ F}$

6) 39° C $\underline{(39 \times 9/5) + 32} = 102.2 \text{ F}$

7) -14° C $\underline{(-14 \times 9/5) + 32} = 6.8 \text{ F}$

8) -33° C $\underline{(-33 \times 9/5) + 32} = -27.4 \text{ F}$

9) 100° F $\underline{(100 - 32) \times 5/9} = 37.78 \text{ C}$

10) 34° F $\underline{(34 - 32) \times 5/9} = 1.11 \text{ C}$

MASSE

SI

1 kg = 1000 g
1 tonne = 1000 kg

Impérial

1 lb = 16 oz
1 ton = 2240 lb

SI à impérial

1 kg = 2.20 lb
 1 tonne = 0.984 ton

Impérial à SI

1 lb = 0.454 kg
 1 ton = 1.02 tonne

1 oz = 28.35 g

Ex 1: SI

a) 65 kg = $\frac{65000}{1000}$ g
 $\frac{65 \text{ kg} \times 1000 \text{ g}}{1 \text{ kg}}$

b) 30500 g = $\frac{30500}{10000}$ tonne
 $\frac{30500 \text{ g} \times 1 \text{ tonne}}{10000 \text{ kg}}$

Ex 2: Impérial

a) 12 lb = $\frac{192}{16}$ oz
 $\frac{12 \text{ lb} \times 16 \text{ oz}}{1 \text{ lb}}$

b) 3 ton = $\frac{6720}{2240}$ lb
 $\frac{3 \text{ ton} \times 2240 \text{ lb}}{1 \text{ ton}}$

Ex 3: SI à Imp ou Imp à SI

a) 150 lb = $\frac{68.2}{2.2}$ kg
 $\frac{150 \text{ lb} \times 0.454 \text{ kg}}{1 \text{ lb}}$

b) 65 ton = $\frac{66.3}{1.02}$ tonne
 $\frac{65 \text{ ton} \times 1.02 \text{ tonne}}{1 \text{ ton}}$

$\frac{150 \text{ lb} \times 1 \text{ kg}}{2.2 \text{ lb}}$

Pratique:

- 1) a. 150 g = _____ kg
- b. 13 tonne = _____ kg_(SI)
- c. 230 lb = _____ oz
- d. 10 ton = _____ lb_(Imp)

- 2) a. 140 lb = _____ kg $\rightarrow = \frac{80}{12} = 92 \text{ oz}$
- b. 5 lb 12 oz = _____ g
- c. 5 tonne = _____ lb_(SI)
- d. 5000 g = _____ lb
- e. 10 ton = _____ kg_(Imp)
- f. 25 oz = _____ kg

livre (lb) et once (oz)

1 lb = 16 oz

3) Écris en livres et onces

- a) 168 oz $\div 16 = 10 \text{ lb } 8 \text{ oz}$
- b) 76 oz
- c) 250 oz
- d) 2,5 tn

\uparrow
 imp.
 (ton)

4) Écris en onces

- a) 7 lb 3 oz $\times 16 = 115 \text{ oz}$
- b) 130 lb 9 oz
- c) 0,5 tn_{imp}
- d) 50 lb 15 oz