

**Exercise 1**

Work out (9 marks)

▶1.  $590 \times 0.1 = 59$

▶2.  $270 \times 0.01 = 2.7$

▶3.  $0.4 \times 0.1 = 0.04$

▶4.  $53 \times 0.01 = 0.53$

▶5.  $48 \div 0.1 = 480$

▶6.  $6 \div 0.01 = 600$

▶7.  $8 \div 0.1 = 80$

▶8.  $0.8 \div 0.01 = 80$

▶9.  $0.1 \times 10 = 1$

**Exercise 2**

Work out (9 marks)

▶1.  $13 + (-7) = 6$

▶2.  $-12 + (-17) = -29$

▶3.  $-9 - (-15) = 6$

▶4.  $14 + (-18) = -4$

▶5.  $14 - (-17) = 31$

▶6.  $-18 - (-17) = -1$

▶7.  $-9 + (-9) = -18$

▶8.  $13 - (-16) = 29$

▶9.  $-28 + (-13) = -41$

**Exercise 3**

Work out (12 marks)

▶1.  $4 \times (-2) = -8$

▶2.  $-11 \times (-3) = 33$

▶3.  $-63 \div -9 = 7$

▶4.  $-7 \times 5 = -35$

▶5.  $-4 \times 8 = -32$

▶6.  $-72 \div (-9) = 8$

▶7.  $-4 \times (-8) = 32$

▶8.  $-30 \div (-3) = 10$

▶9.  $49 \div (-7) = -7$

▶10.  $8 \times (-7) = -56$

▶11.  $-42 \div 6 = -7$

▶12.  $-144 \div (-9) = 16$

**Exercise 4**

Work out (15 marks)

▶1.  $85 + 19 = 104$

▶2.  $2.6 + 5.5 = 8.1$

▶3.  $12.4 + 7.7 = 20.1$

▶4.  $96 + 26 = 122$

▶5.  $8.7 - 4.9 = 3.8$

▶6.  $18.5 + 7.5 = 26$

▶7.  $33 + 95 = 128$

▶8.  $12.1 + 3.7 = 15.8$

▶9.  $15.1 - 11.8 = 3.3$

▶10.  $9.7 - 2.9 = 6.8$

▶11.  $10.7 + 3.9 = 14.6$

▶12.  $9.5 - 6.99 = 2.51$

▶13.  $689 - 103 = 586$

▶14.  $953 - 449 = 504$

▶15.  $2607 - 986 = 1621$

**Exercise 5**

Convert these metric measurements to the units indicated at the right-hand side (8 marks) :

▶1.  $80,7 \text{ dm} = 0.0807 \text{ hm}$

km	hm	dam	m	dm	cm	mm

▶2.  $59,2 \text{ dag} = 5920 \text{ dg}$

kg	hg	dag	g	dg	cg	mg

▶3.  $43,2 \text{ L} = 4320 \text{ cL}$

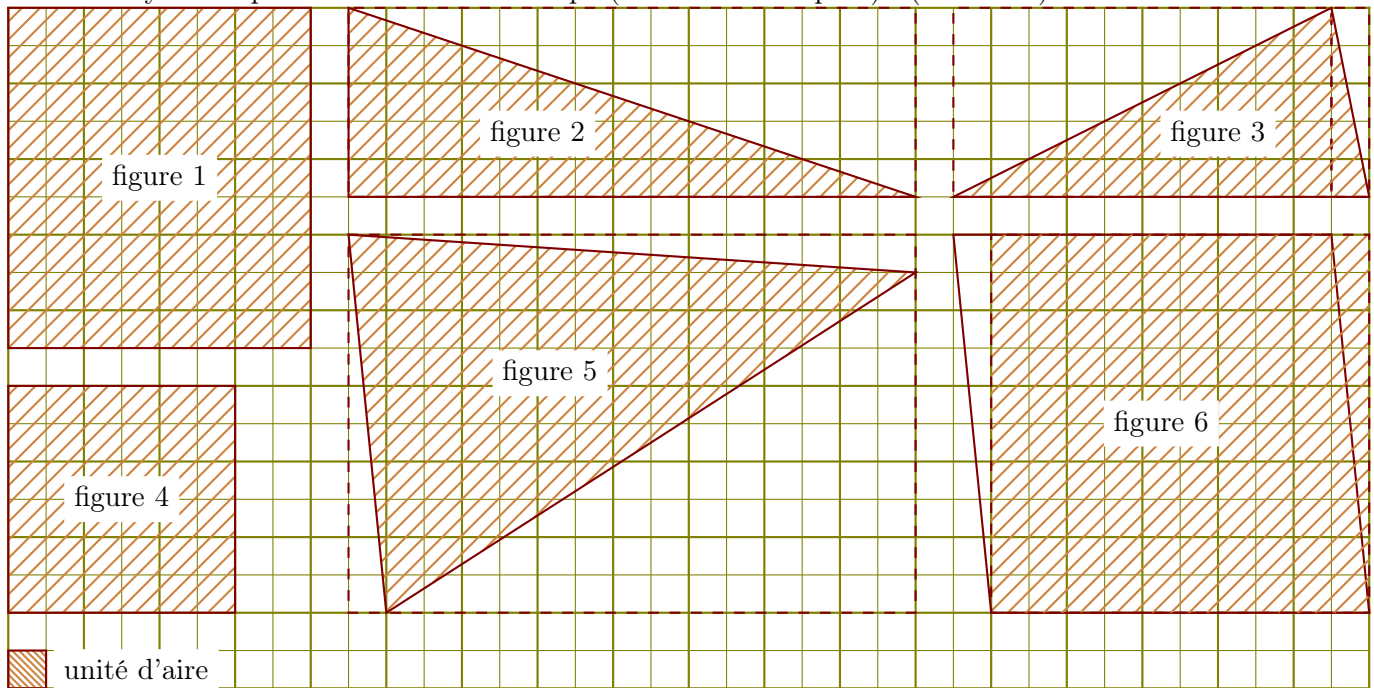
hL	daL	L	dL	cL	mL

▶4.  $97,4 \text{ hg} = 9\,740\,000 \text{ mg}$

kg	hg	dag	g	dg	cg	mg

**Exercise 6**

Show how you compute the area of each shape (no need to compute) : (12 marks)



- ▶1. Area of figure 1 :  $8 \times 9 = 72$  area units
- ▶2. Area of figure 2 :  $(15 \times 5) \div 2 = 37.5$  area units
- ▶3. Area of figure 3 :  $(11 \times 5) \div 2 = 27.5$  area units
- ▶4. Area of figure 4 :  $6 \times 6 = 36$  area units
- ▶5. Area of figure 5 :  $(15 \times 10) - (1 \times 10) \div 2 - (14 \times 9) \div 2 - (15 \times 1) \div 2 = 74.5$  area units
- ▶6. Area of figure 6 :  $10 \times 10 = 100$  area units

**Exercise 7**

Calculate : (18 marks)

- |                 |                    |                       |
|-----------------|--------------------|-----------------------|
| ▶1. $3^5 = 243$ | ▶4. $2^3 = 8$      | ▶7. $1000^1 = 1\ 000$ |
| ▶2. $5^3 = 125$ | ▶5. $3^2 = 9$      | ▶8. $0.4^2 = 0.16$    |
| ▶3. $4^0 = 1$   | ▶6. $1^{1000} = 1$ | ▶9. $0.12^2 = 0.0144$ |

**Exercise 8**

Mike wants to buy six notebooks that have all the same price. At the till he has to pay 18.30€, but he realizes that he is missing 3€. How many notebooks can he buy with the money that he has? (8 marks)

**Answer (explicit calculations) :**  $6x = 18.30 \Leftrightarrow x = 3.05$  (price of one notebook).  $\frac{18.30-3}{3.05} = 5$  notebooks can be bought by Mike.

**Exercise 9**

In a stationery store, Kate buys 4 notebooks and 8 pens. At the till she gives 50€, and the seller returns her 19.20€. Find the price of a notebook, knowing that a pen costs 0.80€. (9 marks)

**Answer (explicit calculations) :** Price of a notebook is 6.1