

Exercise 1

Complete the following expressions :

▶1. $9\,305 = 9 \cdot \dots + 3 \cdot \dots + \dots$

▶2. $2\,678 = 26 \cdot \dots + 10 \cdot \dots + \dots$

▶3. $34 \cdot 100 + 6 \cdot 10\,000 + 8 \cdot 10 + 1 = \dots$

▶4. $754 \cdot 10 + 43 \cdot 1\,000 + 8754 \cdot 10 + 0.2 = \dots$

Exercise 2

Simplify :

▶1. $a + b + a + b + a = \dots$

▶2. $(7 \cdot x) \cdot (3 \cdot y) = \dots$

▶3. $a \cdot b \cdot ab \cdot a = \dots$

▶4. $7.3 \cdot a - a \cdot 4 + 15.2 \cdot a = \dots$

▶5. $15a \cdot 4b \cdot 2a = \dots$

▶6. $7a \cdot a \cdot a^2 \cdot a^2 = \dots$

Exercise 3

Calculate :

▶1. $3.17 \cdot 2.05 = \dots$

▶2. $17.16 : 0.352 = \dots$

▶3. $73.7 : 0.75 = \dots$

▶4. $8.13 : 0.3 = \dots$

▶5. $0.35 : 0.05 = \dots$

▶6. $1\,286.345 - 479.688 + 255.12 = \dots$

Exercise 4

Calculate :

▶1. $3^5 = \dots$

▶2. $5^3 = \dots$

▶3. $4^0 = \dots$

▶4. $2^3 = \dots$

▶5. $3^2 = \dots$

▶6. $1^{1000} = \dots$

▶7. $1000^1 = \dots$

▶8. $0.4^2 = \dots$

▶9. $0.12^2 = \dots$

Exercise 5Insert the missing *decimal point* (or *decimal separator*) :

▶1. $24.5 \cdot 10.2 = \boxed{2499000}$

▶2. $20.5 \cdot 0.95 = \boxed{19475}$

▶3. $20.5 : 0.1 = \boxed{20500}$

▶4. $\boxed{2} \cdot 100 = 20$

Exercise 6

Complete the following expressions :

▶1. $345\,600 : \dots = 34.56$

▶2. $2.045 \cdot 100 = \dots$

▶3. $\dots \cdot 0.001 = 34.09$

▶4. $0.003 \cdot 100\,000 = \dots$

▶5. $247.865 \cdot 0.001 = \dots$

▶6. $154\,785 : 0.01 = \dots$

Exercise 7

Among the three options that are given, which one is the closest value to the result :

▶1. $68\,789 + 20\,157 + 39\,901 \approx \dots$ 120 000, 130 000 or 140 000

▶2. $5\,100 - 1\,879 - 2\,205 \approx \dots$ 1 000, 2 000 or 3 000

▶3. $49.8 \cdot 712.08 \approx \dots$ 3 000, 3 500 or 35 000

▶4. $38\,987 + 50\,115 + 71\,037 \approx \dots$ 140 000, 160 000 or 180 000

▶5. $89.3 \cdot 506.01 \approx \dots$ 5 000, 20 000 or 45 000

Exercise 8

The same rule defines each series. Complete the following table :

...	4.7	8.2	11.7	15.2	...		
...	5	10	7	14	11
...	12.5	11.2	9.9	8.6	
...	2.4	7.2	21.6	64.8	...		
...	81	27	9	...			
...	36	18	9	4.5	...		

Exercise 9

The same rule defines each series. Complete the following table :

...	6.3	18.9	56.7	...		
...	18	10	6	4	...	
...	5.5	8.0	10.5	13.0	...	
...	16	10	7	5.5	...	
...	18.4	15.7	13	
7	15	31	...	127	...	

Exercise 10

Complete the following table :

a	b	c	$(a + b) \cdot c$	$a + b \cdot c$
8	0.4	2.5		
1.04	5	6		
2.3	1.7	14		

Exercise 11

Steve filled his tank next to a supermarket where a liter of gasoline costs 1.27 €. If he had visited a gas station closer to his home, he would have paid 1.34 € per liter. Steve calculated that he saved 2.66 €. How much gas did he buy?

Answer (explicit calculations) :

Exercise 12

Mike wants to buy six notebooks that have all the same price. At the till he has to pay 11.40€, but he realizes that he is missing 3€. How many notebooks can he buy with the money that he has?

Answer (explicit calculations) :

Exercise 13

In a stationery store, Kate buys 6 notebooks and 8 pens. At the till he gives 20€, and the seller returns him 9.20€. Find the price of a notebook, knowing that a pencil costs 0.80€.

Answer (explicit calculations) :