

Correction of exercise 1

Convert these metric measurements to the units indicated at the right-hand side :

- ▶1. 80,7 dm=0,0807 hm

km	hm	dam	m	dm	cm	mm
0	0,8	0	8	0	7	0

- ▶2. 59,2 dag=5 920 dg

kg	hg	dag	g	dg	cg	mg
0	5	9	2	0	0	0

- ▶3. 43,2 L=4320 cL

hL	daL	L	dL	cL	mL
0	4	3	2	0	0

- ▶4. 97,4 hg=9 740 000 mg

kg	hg	dag	g	dg	cg	mg
9	7	4	0	0	0	0

- ▶5. 6,54 m=654 cm

km	hm	dam	m	dm	cm	mm
0	0	0	6	5	4	0

- ▶6. 41,6 cm=0,416 m

km	hm	dam	m	dm	cm	mm
0	0	0	0,4	1	6	

- ▶7. 53,2 hL=53 200 dL

hL	daL	L	dL	cL	mL
53	2	0	0	0	0

- ▶8. 29,8 hL=29 800 dL

hL	daL	L	dL	cL	mL
29	8	0	0	0	0

- ▶9. 75,5 dam=7,55 hm

km	hm	dam	m	dm	cm	mm
0	7,55	5	5	0	0	0

- ▶10. 8,34 hg=0,834 kg

kg	hg	dag	g	dg	cg	mg
0,834	8	3	4	0	0	0

- ▶11. 1,51 dL=0,151 L

hL	daL	L	dL	cL	mL
0	0	0,151	1	5	1

- ▶12. 56,3 dm=5 630 mm

km	hm	dam	m	dm	cm	mm
0	0	0	5	6	3	0

- ▶13. 88,2 dam=0,882 km

km	hm	dam	m	dm	cm	mm
0,882	8	8	2	0	0	0

- ▶14. 29,9 hg=2 990 000 mg

kg	hg	dag	g	dg	cg	mg
2	9	9	0	0	0	0

- ▶15. 73,2 dg=0,00732 kg

kg	hg	dag	g	dg	cg	mg
0,00732	0	0	7	3	2	0

- ▶16. 1,89 dam=0,189 hm

km	hm	dam	m	dm	cm	mm
0	0,189	1	8	9	0	0

- ▶17. 26,3 L=2 630 cL

hL	daL	L	dL	cL	mL
0	2	6	3	0	0

- ▶18. 6 g=0,6 dag

kg	hg	dag	g	dg	cg	mg
0	0	0,6	6	0	0	0

- ▶19. 42 dag=420 000 mg

kg	hg	dag	g	dg	cg	mg
0	4	2	0	0	0	0

- ▶20. 43,8 hm=4 380 m

km	hm	dam	m	dm	cm	mm
4	3	8	0	0	0	0

- ▶21. 59,7 daL=597 L

hL	daL	L	dL	cL	mL
5	9	7	0	0	0

- ▶22. 7,17 hg=717 g

kg	hg	dag	g	dg	cg	mg
0	7	1	7	0	0	0

- ▶23. 14,3 hg=143 000 cg

kg	hg	dag	g	dg	cg	mg
1	4	3	0	0	0	0

- ▶24. 80,1 cL=0,0801 daL

hL	daL	L	dL	cL	mL
0	0,0801	8	0	1	

- ▶25. 5,74 dam=0,574 hm

km	hm	dam	m	dm	cm	mm
0	0,574	5	7	4	0	0

- ▶26. 3,53 g=353 cg

kg	hg	dag	g	dg	cg	mg
0	0	0	3	5	3	0

- ▶27. 6,93 g=69,3 dg

kg	hg	dag	g	dg	cg	mg
0	0	0	6	9	3	0

- ▶28. 8,82 km=882 000 cm

km	hm	dam	m	dm	cm	mm
8	8	2	0	0	0	0

- ▶29. 43,4 cg=0,434 g

kg	hg	dag	g	dg	cg	mg
0	0	0	0,434	4	3	4

- ▶30. 4,46 kg=4 460 000 mg

kg	hg	dag	g	dg	cg	mg
4	4	6	0	0	0	0

►31. $6,67 \text{ dam}^3 = 6\,670\,000 \text{ dm}^3$

►32. $9,04 \text{ dam}^3 = 9\,040 \text{ m}^3$

►33. $31,4 \text{ m}^3 = 31\,400 \text{ dm}^3$

►34. $54,6 \text{ km}^3 = 54\,600\,000 \text{ dam}^3$

►35. $7,67 \text{ dam}^3 = 7\,670 \text{ m}^3$

►36. $86,5 \text{ hm}^3 = 86\,500\,000 \text{ m}^3$

km ³			hm ³			dam ³			m ³			dm ³			cm ³			mm ³					
								6	6	7	0	0	0	0,									
								9	0	4	0,												
5	4	6	0	0	0	0	0	0,		3	1	4	0	0,									
			8	6	5	0	0	0,	7	6	7	0	0	0,									
								0	0	0	0,												

►37. $1,56 \text{ hm}^3 = 1\,560 \text{ dam}^3$

►38. $80,5 \text{ dam}^3 = 0,080\,5 \text{ hm}^3$

►39. $65,6 \text{ m}^3 = 65\,600 \text{ dm}^3$

►40. $97,1 \text{ m}^3 = 0,000\,097\,1 \text{ hm}^3$

►41. $83,1 \text{ hm}^3 = 83\,100\,000 \text{ m}^3$

►42. $8,31 \text{ dm}^3 = 0,000\,008\,31 \text{ dam}^3$

km ³			hm ³			dam ³			m ³			dm ³			cm ³			mm ³					
					1	5	6	0,															
					0,	0	8	0	5														
					0,	0	0	0	0	6	5	6	0	0,									
			8	3	1	0	0	0	0	9	7	1											
								0,	0	0	0	0	0	8	3	1							

►43. $35,6 \text{ cm}^3 = 0,000\,035\,6 \text{ m}^3$

►44. $7,53 \text{ cm}^3 = 0,000\,007\,53 \text{ m}^3$

►45. $9,85 \text{ dm}^3 = 0,000\,009\,85 \text{ dam}^3$

►46. $3,24 \text{ cm}^3 = 3\,240 \text{ mm}^3$

►47. $56,4 \text{ dm}^3 = 56\,400\,000 \text{ mm}^3$

►48. $67,7 \text{ dm}^3 = 0,067\,7 \text{ m}^3$

km ³			hm ³			dam ³			m ³			dm ³			cm ³			mm ³					
											0,	0	0	0	0	3	5	6					
											0,	0	0	0	0	0	7	5	3				
								0,	0	0	0	0	0	9	8	5							
											0,	0	6	7	7								

►49. $90,3 \text{ dam}^3 = 90\,300 \text{ m}^3$

►50. $83,2 \text{ hm}^3 = 83\,200 \text{ dam}^3$

►51. $56,3 \text{ m}^3 = 0,056\,3 \text{ dam}^3$

►52. $56,5 \text{ m}^3 = 0,000\,056\,5 \text{ hm}^3$

►53. $7,93 \text{ dam}^3 = 0,000\,007\,93 \text{ km}^3$

►54. $41,9 \text{ dm}^3 = 0,041\,9 \text{ m}^3$

km ³			hm ³			dam ³			m ³			dm ³			cm ³			mm ³					
					9	0	3	0	0														
			8	3	2	0	0	0,	0	5	6	3											
					0,	0	0	0	0	0	5	6											
					0,	0	0	0	0	0	5	6											
			0,	0	0	0	0	7	9	3													
											0,	0	4	1	9								

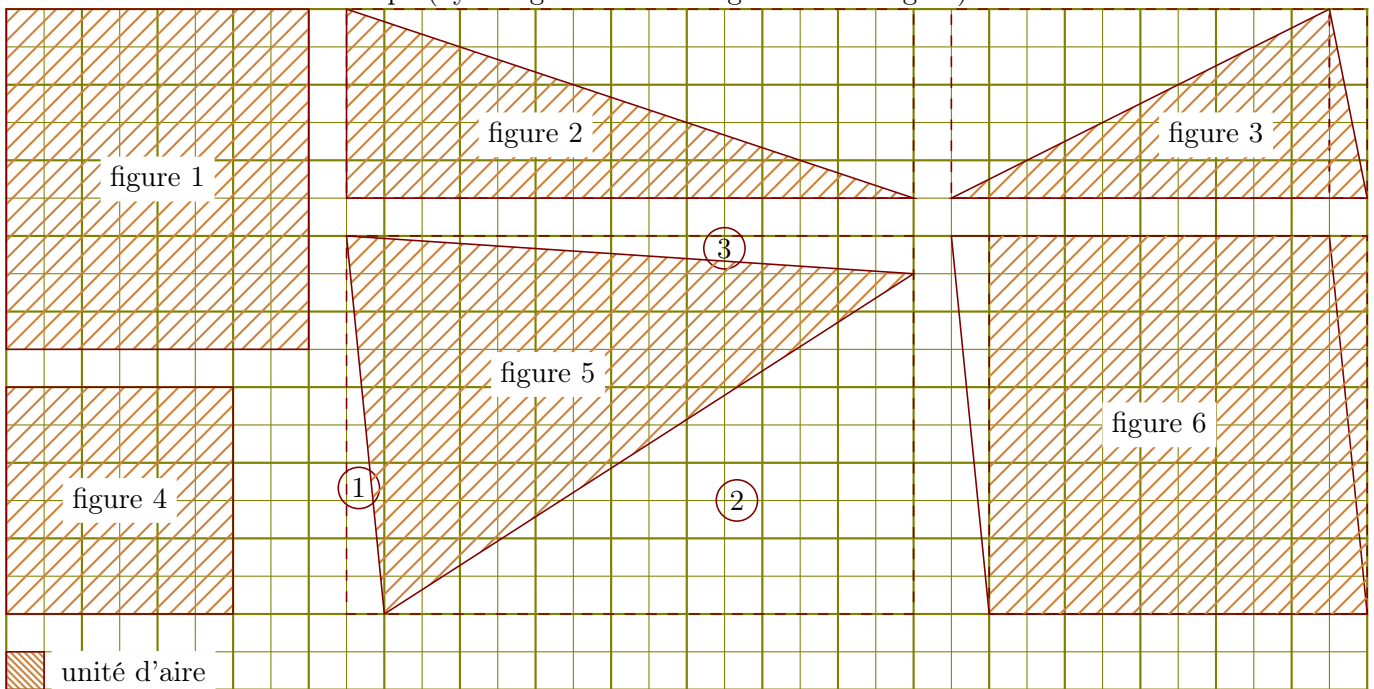
- ▶55. $21,1 \text{ hm}^3 = 21\,100 \text{ dam}^3$
- ▶56. $6,27 \text{ hm}^3 = 0,006\,27 \text{ km}^3$
- ▶57. $1,99 \text{ dm}^3 = 0,001\,99 \text{ m}^3$

- ▶58. $41,2 \text{ m}^3 = 41\,200\,000 \text{ cm}^3$
- ▶59. $12 \text{ cm}^3 = 0,012 \text{ dm}^3$
- ▶60. $1,3 \text{ dm}^3 = 0,000\,001\,3 \text{ dam}^3$

km ³			hm ³			dam ³			m ³			dm ³			cm ³			mm ³		
				2	1	1	0	0,												
	0,	0	0	6	2	7							0,	0	0	1	9	9		
									4	1	2	0	0	0	0	0	0	0	0	0,
													0,	0	0	1	2			
							0,	0	0	0	0	0	0	1	3					

Correction of exercise 2

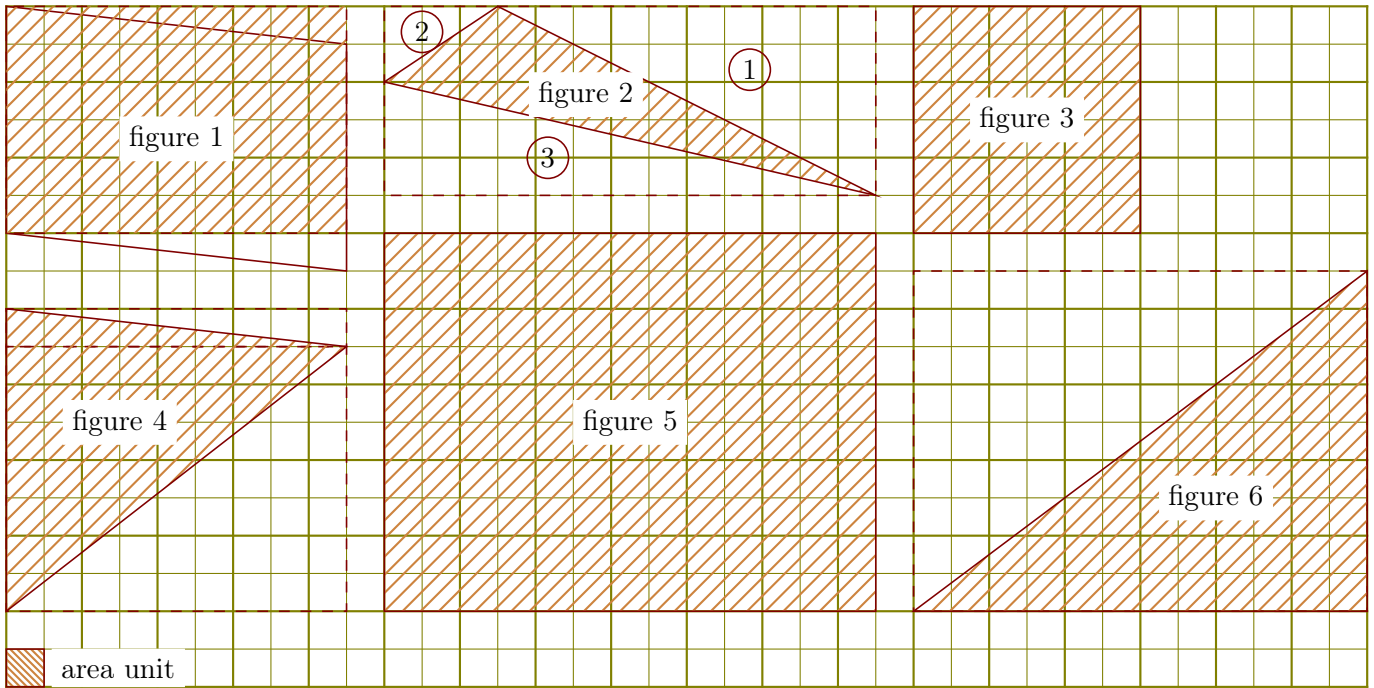
Calculate the area of each shape (by using the area unit given in the figure) :



- ▶1. Area of figure 1 : $8 \times 9 = 72$ area units
- ▶2. Area of figure 2 : it is half of the area of the dotted rectangle.
 $(15 \times 5) \div 2 = 37,5$ area units
- ▶3. Area of figure 3 : it is half of the area of the dotted rectangle.
 $(11 \times 5) \div 2 = 27,5$ area units
- ▶4. Area of figure 4 : $6 \times 6 = 36$ area units
- ▶5. Area of figure 5 : we calculate the area of the dotted rectangle and we subtract the area of the triangles (1), (2) et (3).
 $(15 \times 10) - (1 \times 10) \div 2 - (14 \times 9) \div 2 - (15 \times 1) \div 2 = 74,5$ area units
- ▶6. Area of figure 6 : it is the area of the dotted rectangle.
 $10 \times 10 = 100$ area units

Correction of exercise 3

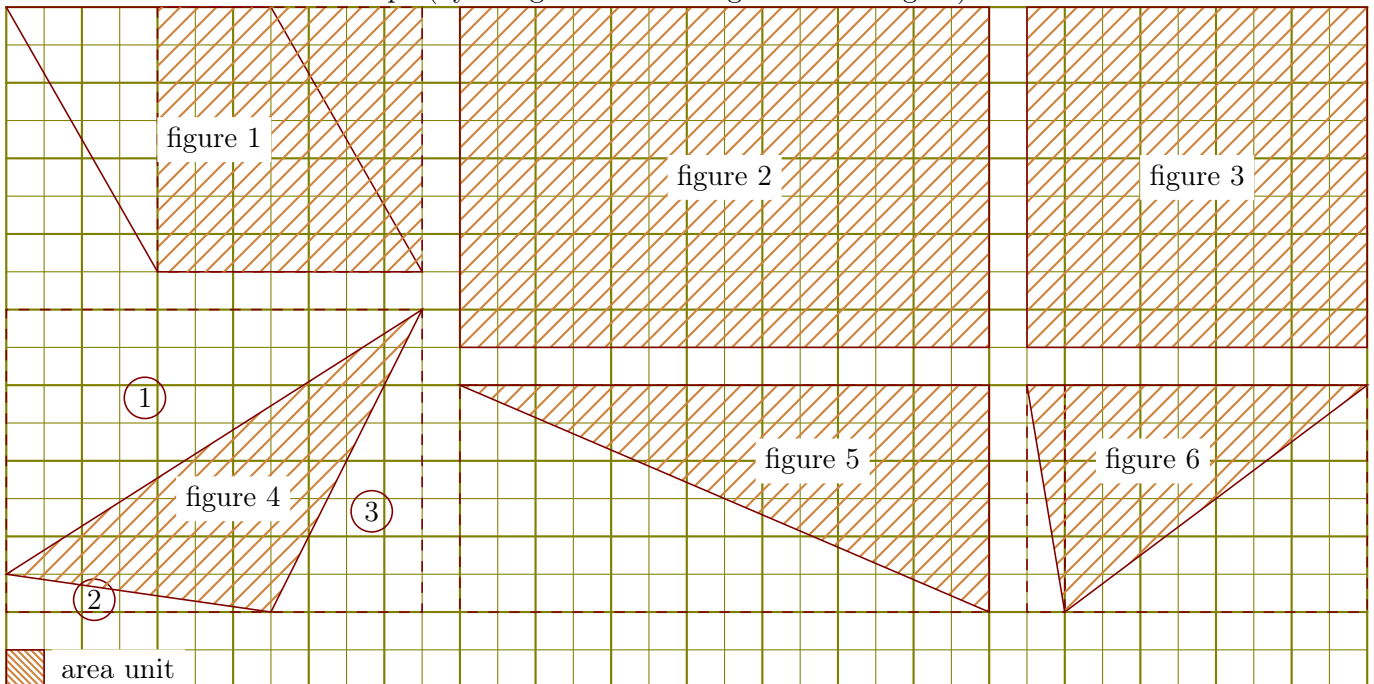
Calculate the area of each shape (by using the area unit given in the figure) :



- ▶1. Area of figure 1 : it is the area of the dotted rectangle.
 $9 \times 6 = 54$ area units
- ▶2. Area of figure 2 : we calculate the area in the dotted rectangle and we subtract the area of the triangles (1), (2) et (3).
 $(13 \times 5) - (10 \times 5) \div 2 - (3 \times 2) \div 2 - (13 \times 3) \div 2 = 17,5$ area units
- ▶3. Area of figure 3 : $6 \times 6 = 36$ area units
- ▶4. Area of figure 4 : it is half of the area of the dotted rectangle.
 $(9 \times 8) \div 2 = 36$ area units
- ▶5. Area of figure 5 : $13 \times 10 = 130$ area units
- ▶6. Area of figure 6 : it is half of the area of the dotted rectangle.
 $(12 \times 9) \div 2 = 54$ area units

Correction of exercise 4

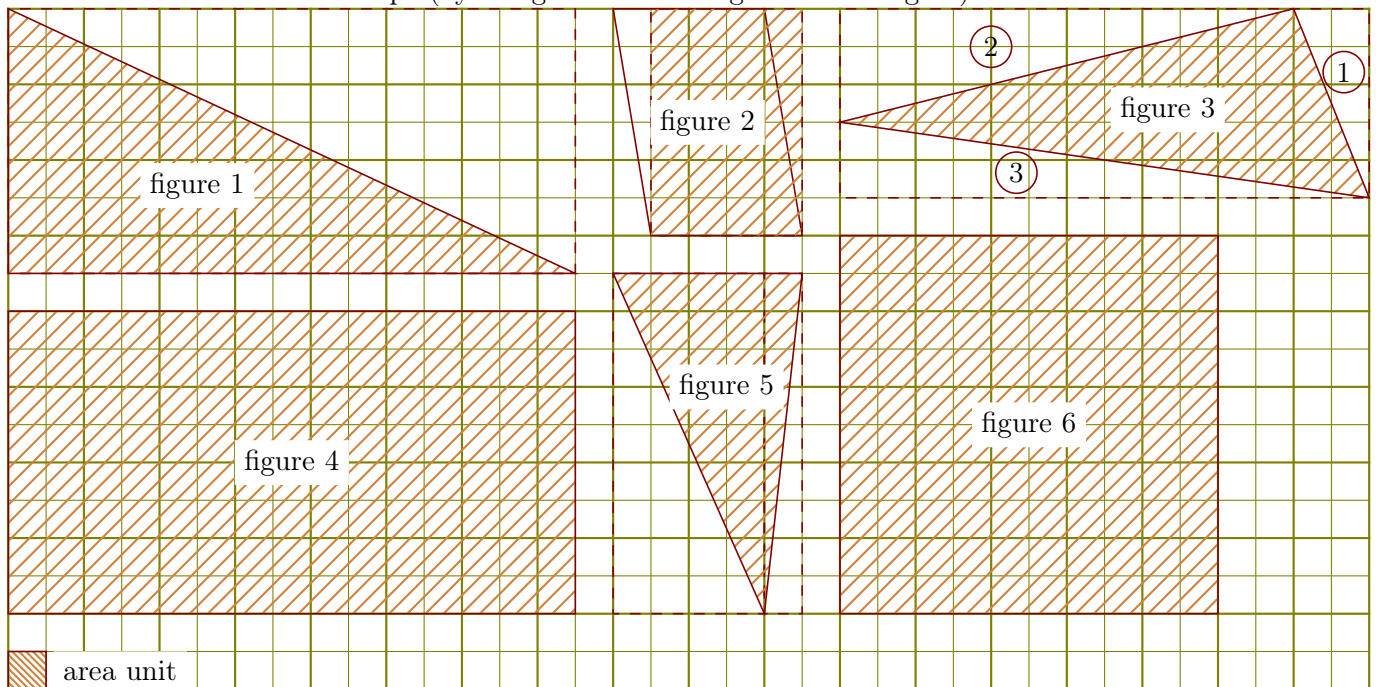
Calculate the area of each shape (by using the area unit given in the figure) :



- ▶1. Area of figure 1 : it is the area of the dotted triangle.
 $7 \times 7 = 49$ area units
- ▶2. Area of figure 2 : $14 \times 9 = 126$ area units
- ▶3. Area of figure 3 : $9 \times 9 = 81$ area units
- ▶4. Area of figure 4 : we calculate the area of the dotted rectangle and we subtract the areas of the triangles (1), (2) et (3).
 $(11 \times 8) - (11 \times 7) \div 2 - (7 \times 1) \div 2 - (4 \times 8) \div 2 = 30$ unités d'aire
- ▶5. Area of figure 5 : it is the half of the dotted rectangle.
 $(14 \times 6) \div 2 = 42$ area units
- ▶6. Area of figure 6 : it is half of the dotted rectangle.
 $(9 \times 6) \div 2 = 27$ area units

Correction of exercise 5

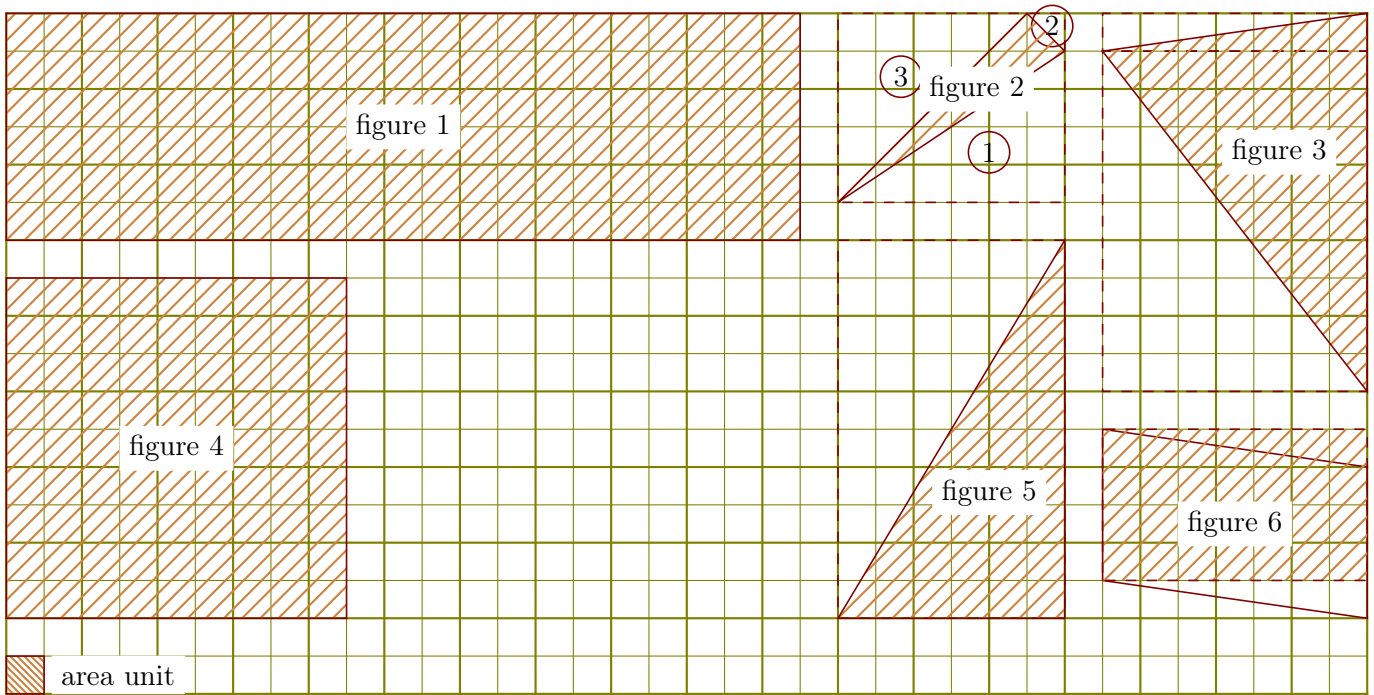
Calculate the area of each shape (by using the area unit given in the figure) :



- ▶1. Area of figure 1 : it is half of the area of the dotted rectangle.
 $(15 \times 7) \div 2 = 52,5$ area units
- ▶2. Area of figure 2 : it is the area of the dotted rectangle.
 $4 \times 6 = 24$ area units
- ▶3. Area of figure 3 : we calculate the area of the dotted rectangle and we subtract the areas of the triangles (1), (2) et (3).
 $(14 \times 5) - (2 \times 5) \div 2 - (12 \times 3) \div 2 - (14 \times 2) \div 2 = 33$ area units
- ▶4. Area of figure 4 : $15 \times 8 = 120$ area units
- ▶5. Area of figure 5 : it is the half of the area of the dotted rectangle.
 $(5 \times 9) \div 2 = 22,5$ area units
- ▶6. Area of figure 6 : $10 \times 10 = 100$ area units

Correction of exercise 6

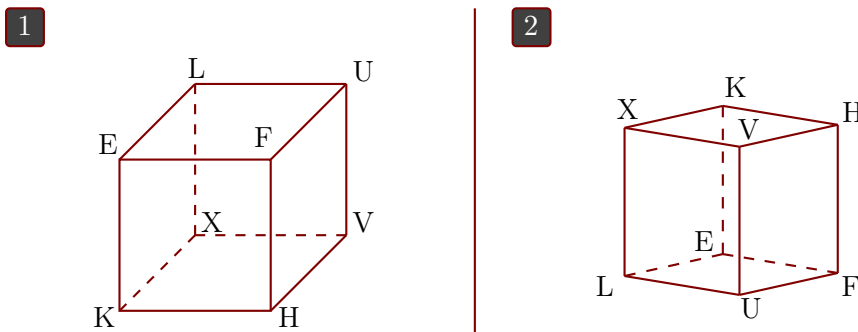
Calculate the area of each shape (by using the area unit given in the figure) :



- ▶1. Area of figure 1 : $21 \times 6 = 126$ area units
- ▶2. Area of figure 2 : we calculate the area of the dotted rectangle and we subtract the areas of triangles ①, ② et ③.
 $(6 \times 5) - (6 \times 4) \div 2 - (1 \times 1) \div 2 - (5 \times 5) \div 2 = 5$ area units
- ▶3. Area of figure 3 : it is half of the dotted rectangle.
 $(7 \times 10) \div 2 = 35$ area units
- ▶4. Area of figure 4 : $9 \times 9 = 81$ area units
- ▶5. Area of figure 5 : it is half of the area of the dotted rectangle.
 $(6 \times 10) \div 2 = 30$ area units
- ▶6. Area of figure 6 : it is the area of the dotted rectangle.
 $7 \times 4 = 28$ area units

Correction of exercise 7

Figures 1 and 2 represent the same cube EFHKLUVX.

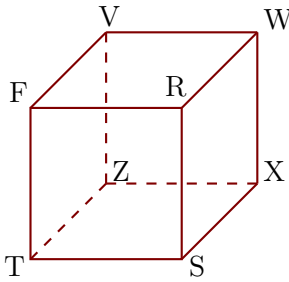


- ▶1. Complete the missing angles in figure 2.
- ▶2. Give all the perpendicular edges to [KE].
 [KH], [KX], [EF] and [EL] are the perpendicular edges to [KE].
- ▶3. Give all the parallel edges to [HV].
 [KX], [EL] and [FU] are the parallel edges to [HV].

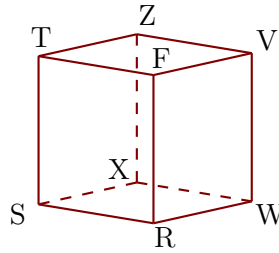
Correction of exercise 8

Figures 1 and 2 represent the same cube FRSTVWXZ.

1



2

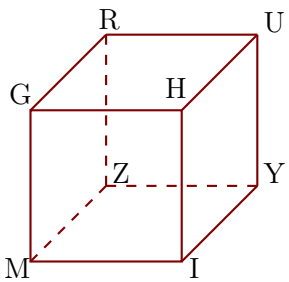


- ▶1. Complete the missing corners in Figure 2.
- ▶2. Give all the perpendicular edges to [XW].
[XZ], [XS], [WV] and [WR] are the perpendicular edges to [XW].
- ▶3. Give all the parallel edges to [XS].
[TZ], [FV] and [RW] are the parallel edges to [XS].

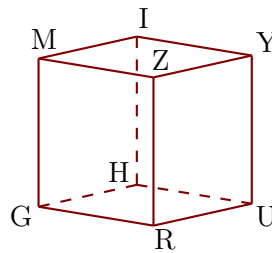
Correction of exercise 9

Figures 1 and 2 represent the same cube GHIMRUYZ.

1



2

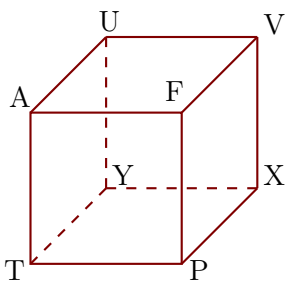


- ▶1. Complete the missing corners in Figure 2.
- ▶2. Give all the perpendicular edges to [YZ].
[YU], [YI], [ZR] and [ZM] are the perpendicular edges of [YZ].
- ▶3. Give all the parallel edges to [RG].
[HU], [IY] and [MZ] are the parallel edges to [RG].

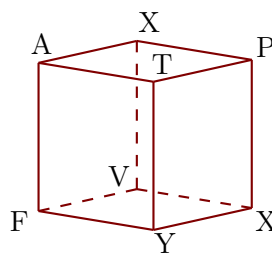
Correction of exercise 10

Figures 1 and 2 represent the same cube AFPTUVXY.

1



2

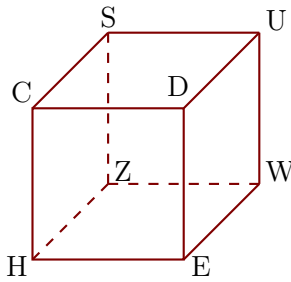


- ▶1. Complete the missing edges in Figure 2.
- ▶2. Give all the perpendicular edges to [VF].
[VU], [VX], [FA] and [FP] are the perpendicular edges to [VF].
- ▶3. Give all the parallel edges to [PX].
[TY], [AU] and [FV] are the parallel edges to [PX].

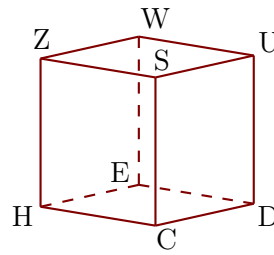
Correction of exercise 11

Figures 1 and 2 represent the same cube CDEHSUWZ.

1



2



- ▶1. Complete the missing edges in Figure 2.
- ▶2. Give all the perpendicular edges to [HZ].
[HE], [HC], [ZW] and [ZS] are the perpendicular edges to [HZ].
- ▶3. Give all the parallel edges to [ZW].
[HE], [CD] and [SU] are the parallel edges to [ZW].