

Solutions

Cryptography

Exercise 1

A	B	C	D	E	F	G	H	I	J	K	L	M
J	K	L	M	N	O	P	Q	R	S	T	U	V
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
J	X	Y	Z	A	B	C	D	E	F	G	H	I

Cryptography is fun!

Exercise 2 Vbiaxk

Exercise 3

Verification of encryption:

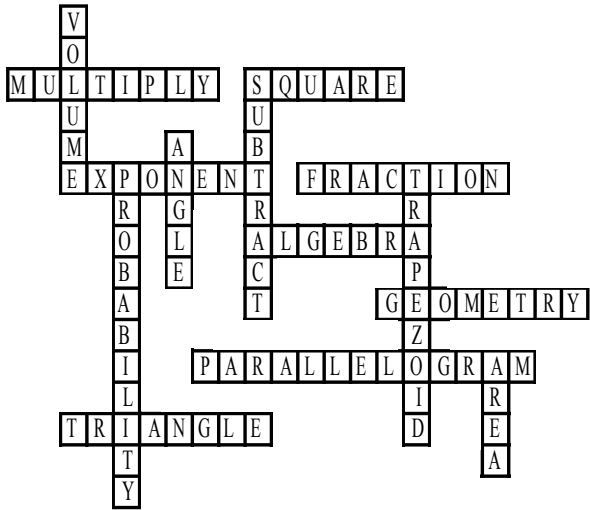
M	13	H	8	$13 + 8 = 21$	U
E	5	I	9	$5 + 9 = 14$	N
S	19	H	8	$19 + 8 = 27 \Rightarrow 27 - 26 = 1$	A
S	19	I	9	$19 + 9 = 28 \Rightarrow 28 - 26 = 2$	B
A	1	H	8	$1 + 8 = 9$	I
G	7	I	9	$7 + 9 = 16$	P
E	5	H	8	$5 + 8 = 13$	M

Verification of decryption:

U	21	H	8	$21 - 8 = 13$	M
N	14	I	9	$14 - 9 = 5$	E
A	1	H	8	$1 - 8 = -7 \Rightarrow 26 - 7 = 19$	S
B	2	I	9	$2 - 9 = -7 \Rightarrow 26 - 7 = 19$	S
I	9	H	8	$9 - 8 = 1$	A
P	16	I	9	$16 - 9 = 7$	G
M	13	H	8	$13 - 8 = 5$	E

Exercise 4 Wire you insulate?

Cryptic Crossword

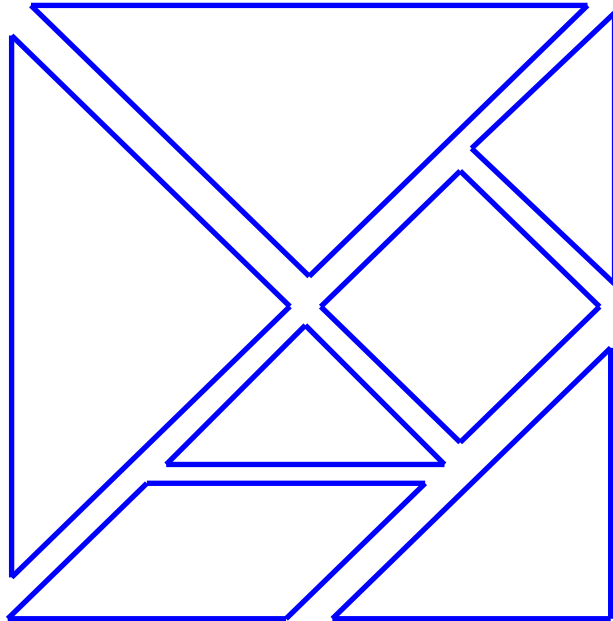


Area and Tangrams

Exercise 1

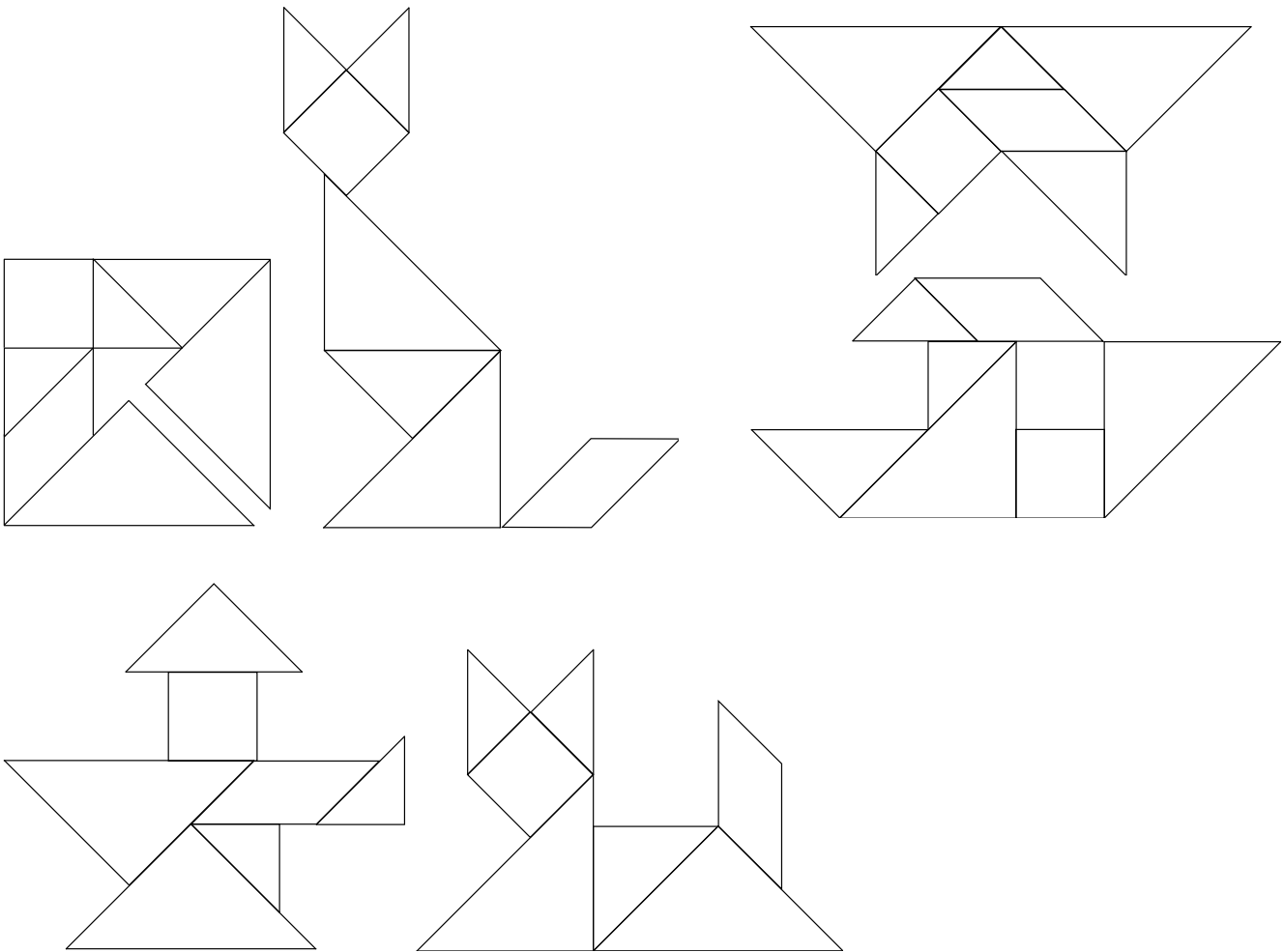
1. Large Triangle
2. Large Triangle
3. Small Triangle
4. Small triangle
5. Square
6. Parallelogram
7. Medium Triangle

Exercise 2



Exercise 3

1. 16 cm^2
2. 4 cm^2
3. 8 cm^2
4. 8 cm^2
5. 8 cm^2
6. $A_T = 64$

Exercise 4

Exercise 5

