

Crazy shapes – Solutions

C. The correct answers are:

1. Equivalent also means **equal**.
2. In geometry shapes play an important role. This is **true**.
3. In topology it is important that edges, knots and meshes are in a certain connection to one another. This is **true**.
4. In topology, a donut can be formed into a cup by stretching, compressing, and bending it. The important commonality of the two objects is that **both have a hole**. In a coffee cup it is the handle and in a donut it is the hole in the middle.
5. The name of the interface where both shapes from the paper strip puzzle are linked to one another is **Hopf link**.
6. After you untangle the paper strip puzzle **two stars** occur. They are linked to one another.



D. You find the hidden words here:

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