

# WPF PUZZLE GP 2016 COMPETITION BOOKLET

**Host Country: Russia**

**Andrey Bogdanov**

**Special Notes:** No special notes for this round.

## 1-3. Not Like the Others (1, 4, 11 points)

Each item in the list, except one, satisfies the same rule. Which one doesn't follow the rule?

*Note: The puzzles may require some knowledge of English and/or trivia facts.*

**Answer:** The item that doesn't follow the rule.

**Example Answer:** THREE

ONE  
1 2 3

TWO  
1 2 3

THREE

SIX  
1 2 3

TEN  
1 2 3

1

DAD BOOK GRANNY MAM PUZZLE SISTER SON START

2

AHA BOOK CHAOTIC CHOICE DIOXIDE ISI ONO OTTO

3

DANDY FREAK MONEY SAMBA SUITE THREE TUTOR WEALD

## 4. Mini Quiz (3 points)

Select an answer for each question such that the answers are correct and consistent.

**Answer:** The letters of the selected answer, in order.

**Example Answer:** CBA

4

Q1.

How many times  
is "A" chosen  
in this quiz?

- A. 0
- B. 1
- C. 2

Q2.

How many times  
is "B" chosen  
in this quiz?

- A. 0
- B. 2
- C. 1

Q3.

How many times  
is "C" chosen  
in this quiz?

- A. 0
- B. 1
- C. 2

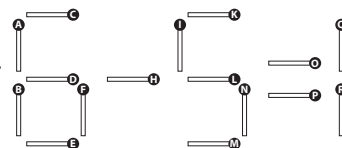
**5-6. Mini Quiz (14, 11 points)**

- 5**
- |   |   |  |   |   |
|---|---|--|---|---|
| Q1.<br>Answer of Q2<br>minus answer of<br>Q3 equals | Q2.<br>Answer of Q3<br>minus answer of<br>Q4 equals | Q3.<br>Answer of Q5<br>plus answer of<br>Q4 equals | Q4.<br>Product of<br>answers for Q1,<br>Q2, and Q3 is | Q5.<br>Sum of all<br>answers in this<br>quiz equals |
| A. -1   | A. -2   | A. -1  | A. -2   | A. -1   |
| B. 1  | B. -1   | B. 1   | B. -1   | B. 1  |
| C. 2  | C. 1  | C. 2   | C. 1  | C. 2  |
- 6**
- |  |  |  |   |  |
|--|--|--|---|--|
| Q1.<br>Are the answers<br>for Q2 and Q3<br>the same? | Q2.<br>Are the answers<br>for Q1 and Q2<br>the same? | Q3.<br>Are the answers<br>for Q2 and Q4<br>the same? | Q4.<br>Are the answers<br>for Q1 and Q2<br>different? | Q5.<br>Are the answers<br>for Q1 and Q3<br>the same? |
| A. yes   | A. yes   | A. yes   | A. yes  | A. yes   |
| B. no  | B. no  | B. no  | B. no   | B. no  |

**7-9. Matches (17, 7, 16 points)**

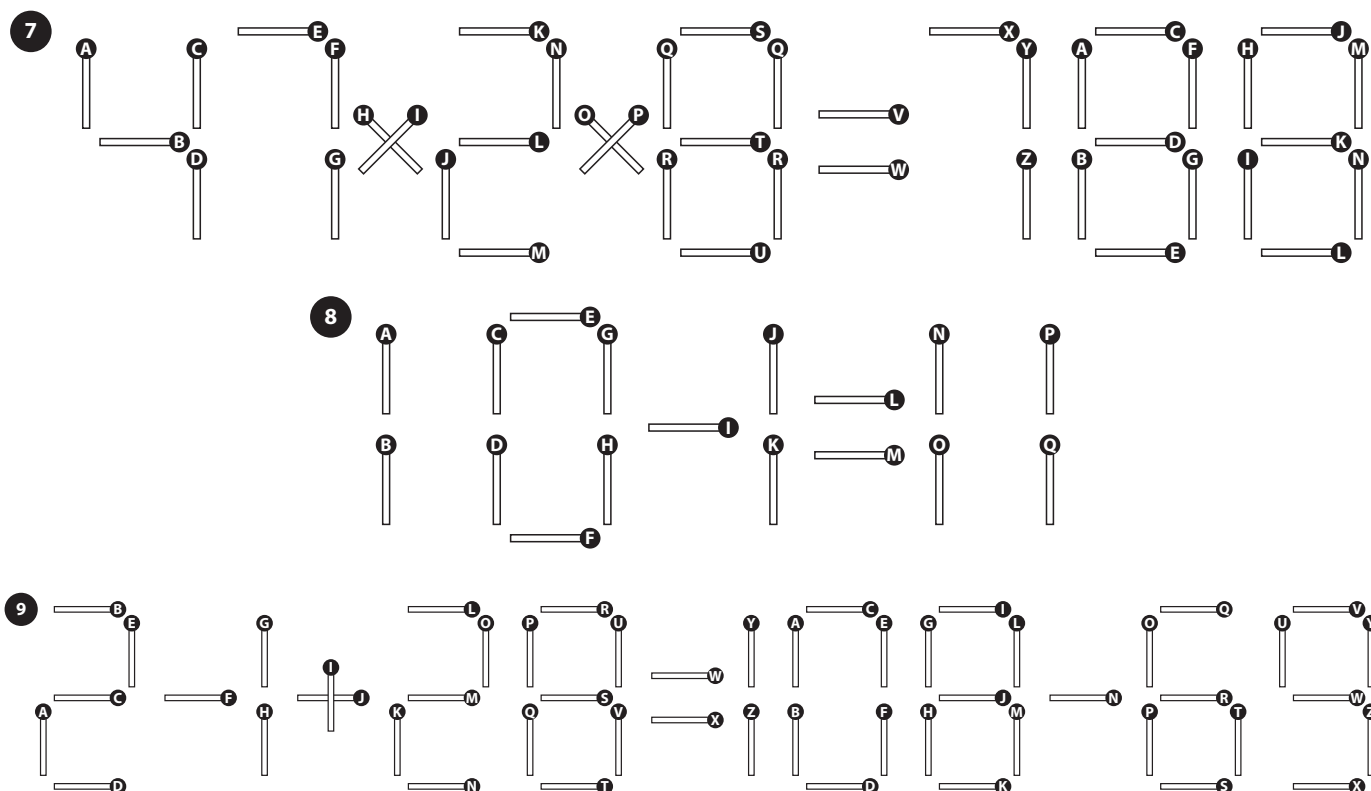
Remove two matches so that the remaining matches express a correct arithmetic equality.

*The letters on the match heads are only for entering your answer.*

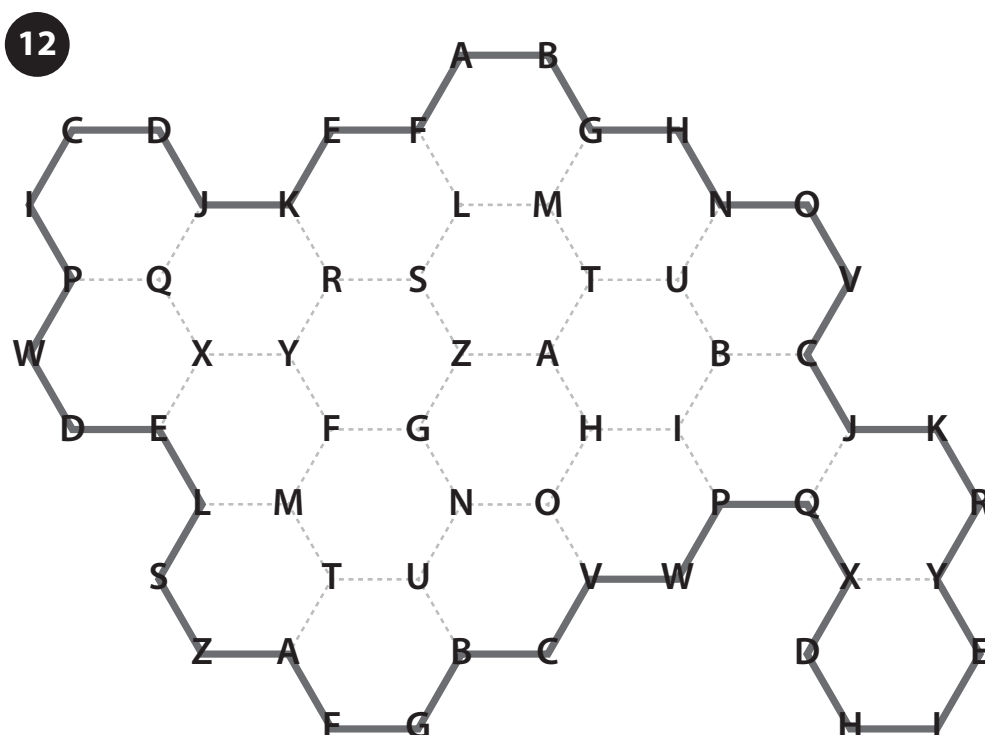
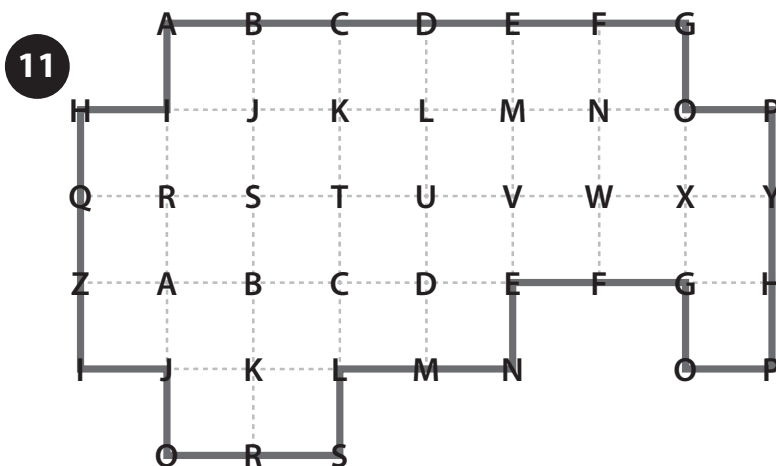
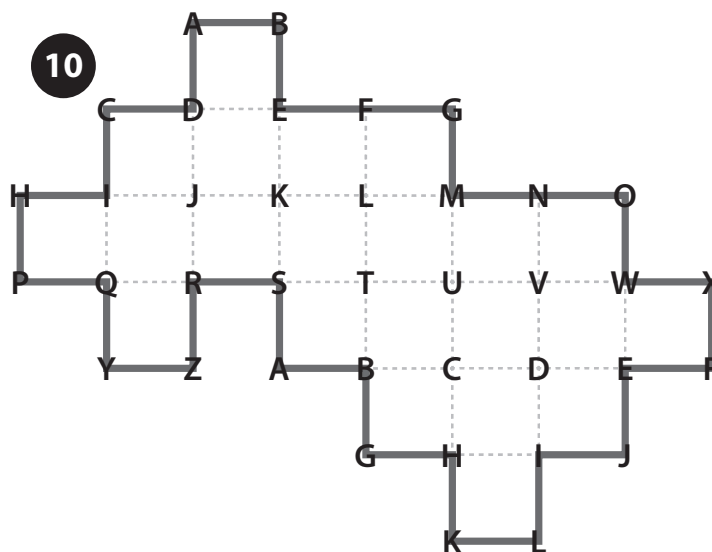
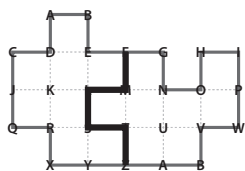


**Answer:** The letters of the two removed matches, in alphabetical order.

**Example Answer:** GJ



**Example Answer:** FMLSTZ or ZTSLMF





**13-15. Alphametics (8, 15, 59 points)**

Each symbol, except for the square, represents a different (base ten) digit. The square can represent any digit, including digits that are represented by other symbols. Figure out which symbol corresponds to which digit so that the calculation is correct. Multi-digit numbers cannot start with the digit 0 (zero).

**Answer:** Enter the correct assignment of digits to the final line of the calculation.

**Example Answer:** 39705336

$$\begin{array}{r}
 \boxed{5}\boxed{0}\boxed{1}\boxed{3}\boxed{3} \\
 \times \boxed{7}\boxed{9}\boxed{2} \\
 \hline
 \boxed{1}\boxed{0}\boxed{0}\boxed{2}\boxed{6}\boxed{6} \\
 \boxed{4}\boxed{5}\boxed{1}\boxed{1}\boxed{9}\boxed{7} \\
 \boxed{3}\boxed{5}\boxed{0}\boxed{9}\boxed{3}\boxed{1} \\
 \hline
 \rightarrow \boxed{3}\boxed{9}\boxed{7}\boxed{0}\boxed{5}\boxed{3}\boxed{3}\boxed{6}
 \end{array}$$

13 →

$$\begin{array}{r}
 \triangle \square \triangle \\
 \times \triangle \square \triangle \\
 \hline
 \triangle \square \square \square \triangle
 \end{array}$$

14 →

$$\begin{array}{r}
 \text{PRIME} \\
 + \text{NAME} \\
 \hline
 \text{SCIENTIC}
 \end{array}$$

15 →

$$\begin{array}{r}
 \text{TWO} \\
 \times \text{SIX} \\
 \hline
 \square \square \square \square \\
 \square \square \square \square \\
 \square \square \square \square \\
 \hline
 \text{TWEEVE}
 \end{array}$$

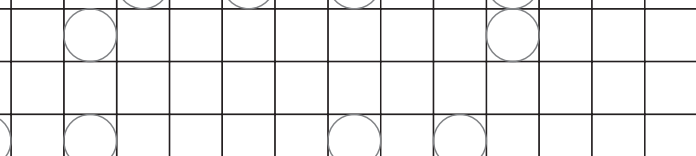


Put at most one letter into each cell so that the given words can be read either across (left-to-right) or down (top-to-bottom) in consecutive cells in the grid. Every word must appear in the grid exactly once, and no other words may appear in the grid (that is, if two cells are filled and are adjacent, then there must be a word that uses both of them). Every word must have either a blank cell or the edge of the grid before and after it. All letters must be (orthogonally) connected in a single group.

**Answer:** For each designated row, enter its contents from left to right, ignoring any blank cells. If all cells in the row are blank, enter a single letter 'X'.

		(W)							
➡	(O)	O		(P)	U	Z	Z	L	(E)
	(F)	O	R						X
		D							A
➡	(L)	I	S	(T)					M
		S	H						P
			I						L
			(S)	C	R	A	B	B	L E

19a →



ALL  
GREAT  
THINGS  
ARE  
SIMPLE  
AND  
MANY  
CAN  
BE  
EXPRESSED

IN  
SINGLE  
WORDS  
FREEDOM  
JUSTICE  
HONOR  
DUTY  
MERCY  
HOPE



## 20. Find the Differences (3 points per difference found)

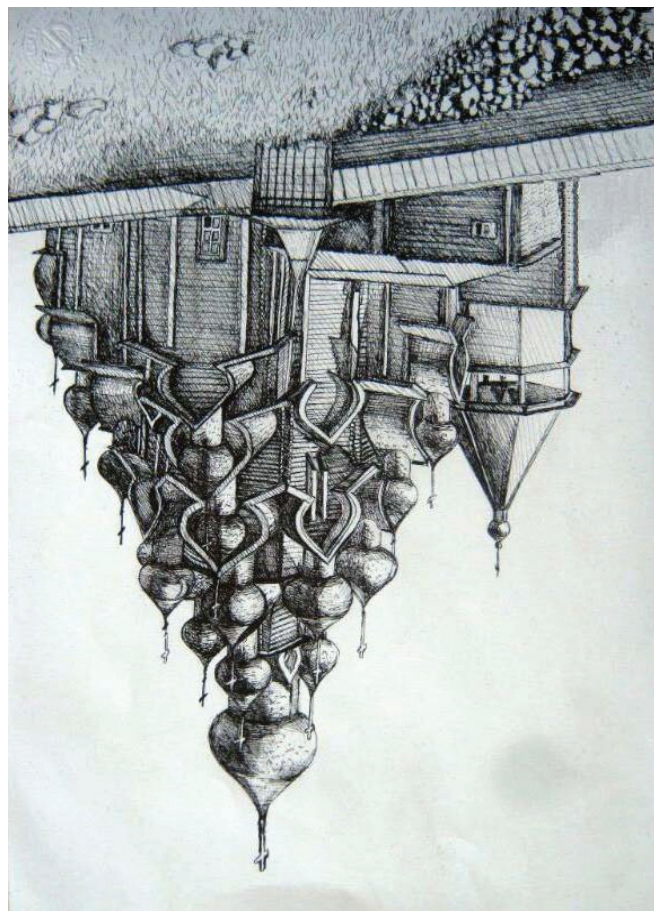
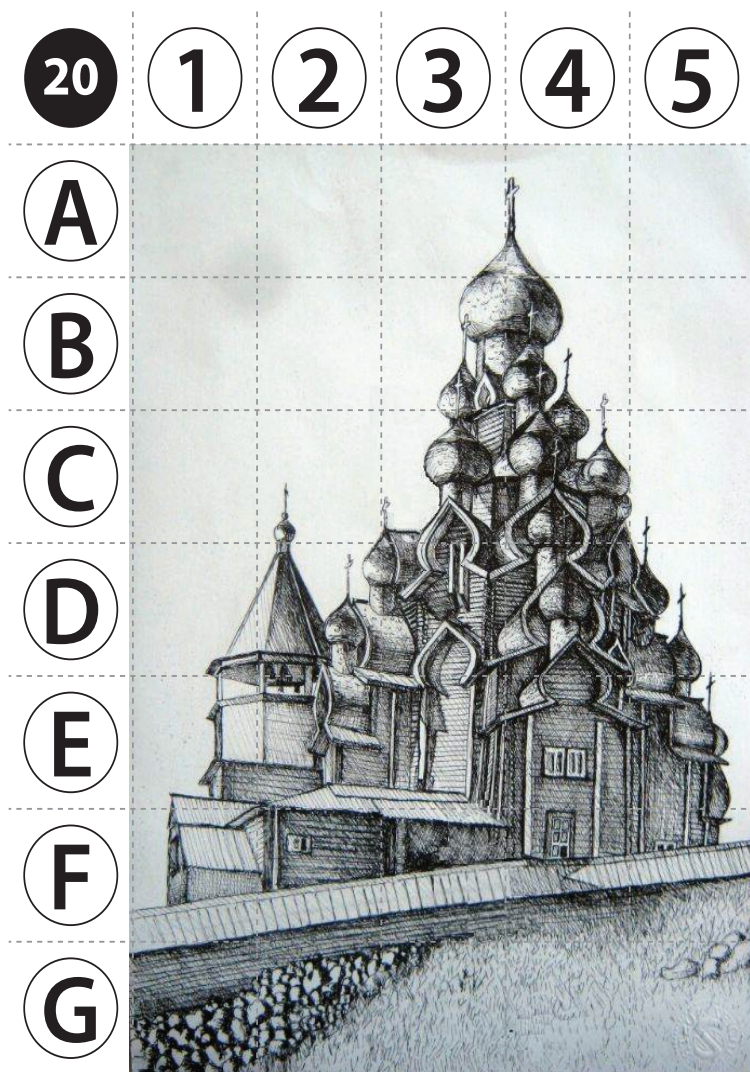
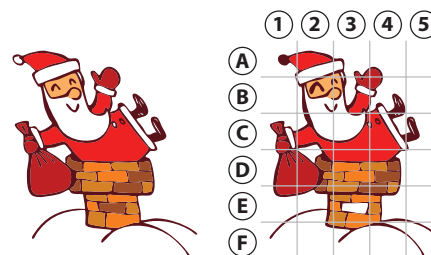
Find the differences between the two pictures, not counting rotation or distortion of the overall picture.

*The differences are clearly intentional, such as things that have disappeared, moved, changed size, shape, or orientation. Ignore the grid lines and subtle differences due to graphic anomalies or overall distortion. Each grid square will contain at most one difference, and each difference will stay within one grid square.*

The example puzzle has three differences. The first puzzle has five differences; the other two puzzles have ten differences. For the puzzles with ten differences, you will receive bonus points for finding all ten differences.

**Answer:** Enter the coordinates, row first (such as 'A1') for each difference found. You do not need to enter them in any particular order. (Do not put separating symbols, such as spaces or commas, between the coordinates.)

**Example Answer:** A1E3B2





**21-22. Find the Differences (1, 4 points per difference found; 2, 13 point bonus for finding all ten)**

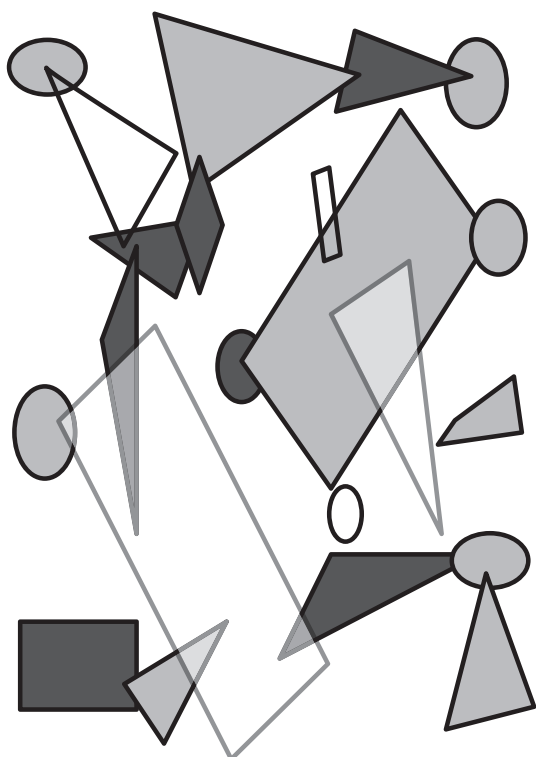
**Answer:** Enter the coordinates, row first (such as 'A1') for each difference found. You do not need to enter them in any particular order. (Do not put separating symbols, such as spaces or commas, between the coordinates.)

**Example Answer:** A1E3B2



21	1	2	3	4	5	6	7
A	11	12	13	14	15	16	17
B	21	37	41	42	43	44	45
C	22	36	61	81	66	65	51
D	23	35	75	62	88	89	52
E	24	34	74	82	63	06	53
F	25	33	73	21	71	64	54
G	26	32	67	68	69	70	55
H	27	31	95	96	97	98	99

66	86	16	96	56	12	17
55	01	69	89	19	22	92
45	49	11	21	21	33	52
25	06	29	28	41	42	42
25	68	88	29	51	52	22
15	59	66	81	19	92	22
45	44	24	24	41	12	12
11	91	51	41	13	21	11



22	1	2	3	4	5
A					
B					
C					
D					
E					
F					
G					