Autumn 2018./2019.

SCHOOL	
TEAM NUMBER	
CATEGORY	**D1**
COMMISSIONER	

	Student's name and surname	Year	Mentor's name and surname
1.			
2.			

ANSWERS:

4TH YEAR					
4.1.		4.6.		4.13.	
4.2.		4.7.		4.14.	
4.3.		4.8.		4.15.	
		4.9.		4.16.	
				4.17.	
				4.18.	
				4.19.	
				4.20.	

I ♥ MATematika

Author: Maja Zelčić, mathematics professor   Reviewers: Biljana Gaš, mag. prim. educ.
                     Milena Laco, dipl. učit.

Translator: Josip Kličinović, mathematics professor

CORRECT ANSWER: 10 pts	**ANSWER „E" : 0 pts**	**FALSE ANSWER: –2 pts**

4.1. The number from which we subtract is called:

A.	**B**.	**C**.	**D**.	**E**. We don't want to answer
minuend	addend	dividend	subtrahend	

4.2. Which statement is incorrect?

A.	**B**.	**C**.	**D**.	**E**. We don't want to answer
A line segment is part of a line	A ray is part of a line	A line segment is part of a ray	A line is part of a ray	

4.3. What is the remainder when dividing 345 by 7?

A.	**B**.	**C**.	**D**.	**E**. We don't want to answer
1	2	3	4	

CORRECT ANSWER: 20 pts	**ANSWER „E" : 0 pts**	**FALSE ANSWER : –4 pts**

4.6. World champion Tin Srbić practises every day, except on Sundays, from 7:15 am to 9:45 am, and then again from 4:45 pm to 7 pm. How much time does he spend training every week?

A.	**B**.	**C**.	**D**.	**E**. We don't want to answer
18 hours 45 minutes	22 hours 30 minutes	23 hours 45 minutes	28 hours 30 minutes	

4.7. Domino tiles are small rectangular tiles split into two squares. These squares can be empty or have one to six dots. How many different domino tiles exist with a square that has five dots?

A.	B.	C.	D.	E. We don't want to answer
56	45	35	Less than 20	

4.8. Friends Allan, Bob, Charlie, and Dave reserved four consecutive seats in the cinema. Charlie is sitting to Bob's left. Allan is sitting at the end of the row. No one is sitting between Bob and Dave. Allan and Bob are sitting next to each other. Which one of them is sitting on the leftmost seat?

A.	B.	C.	D.	E. We don't want to answer
Allan	Bob	Charlie	Dave	

4.9. Five years ago the sum of Marc's parents' ages was 50 years. What will the sum of their ages be in 7 years?

A.	B.	C.	D.	E. We don't want to answer
74	64	62	Can't be determined	

CORRECT ANSWER: 30 pts	ANSWER „E" : 0 pts	FALSE ANSWER : –6 pts

4.13. How many three-digit numbers are there, so that their value won't change if we change the position of the hundreds and the units digit?

A.	B.	C.	D.	E. We don't want to answer
90	100	81	9	

4.14. In his checkered notebook Luke colored a big square in green color. That big square has several smaller squares within itself. After that he colored 24 small squares in yellow, so he expanded the big green square by one column and one row on each side. How many small squares did he color?

A.	B.	C.	D.	E. We don't want to answer
36	49	25	Can't be determined	

4.15. Which one of the following statements doesn't have to be true?

A. Number divisible by 4 is even	B. Number divisible by 7 is odd	C. Number divisible by 10 is even	D. Every number is divisible by 1	E. We don't want to answer

4.16. Mary attends a knitting class on Fridays, but only on even dates. She pays for the course on the fifth day of the month. If Mary went to her class three times in one month, what was the day in week that she paid for the course?

A.	B.	C.	D.	E. We don't want to answer
Monday	Wednesday	Friday	Can't be determined	

4.17. A square is divided by three parallel lines into four different rectangles. If the sum of perimeters of all rectangles is 150 cm, what is the perimeter of the square?

A.	B.	C.	D.	E. We don't want to answer
15 cm	60 cm	25 cm	Can't be determined	

4.18. Luke's book has 123 pages. How many digits in total were used to mark all the pages of that book?

A.	B.	C.	D.	E. We don't want to answer
122	276	258	261	

4.19. For the birthday party, organizers put five round tables, and around each table they put chairs numerated with numbers 1, 2, 3, etc. If chair number 4 is opposite to chair number 10, how many chairs are there in total?

A.	B.	C.	D.	E. We don't want to answer
60	50	65	Can't be determined	

4.20. In how many different ways can Jan pay for chocolate worth 12 kuna, if she has coins of 1, 2, and 5 kn?

A.	B.	C.	D.	E. We don't want to answer
10	13	8	12	