Mathematica Centrum Together, let's shape the mathematicians of the future

BYRON-GERMAIN PREPARATORY 2019

1.	The missing number in the equation: $8 \times 3 = 4 \times ?$ is								
	A) 8	B) 9	C)	10	D)	6	E)	7	
2.	The sum of 8 + 50 + 200 + 6 000 is								
	A) 6 258	B) 6 558	C)	6 858	D)	6 238	E)	6 458	
3.	The value of $(15 \div 3) \times (16 - 9)$ is a multiple of								
	A) 2	B) 3	C)	4	D)	5	E)	6	
4.	20 nickels = ? quarters.								
	A) 5	B) 4	C)	6	D)	3	E)	7	
5.	What fraction of the hexagon is shaded?								
	A) 1/6 D) 1/3	B) 1/5 E) 1/2	C)	1/4					
6.	A natural number is multiplied by 7. The result could not be								
	A) 42 D) 49	B) 56 E) 63	C)	88					
7.	. How many blocks are there in the pile?								
	A) 10 D) 13	B) 11 E) 14	C)	12			>		
8.	If the last day of January is a Wednesday, then January 11 was a								
	A) Wednesday	B) Thursday	C)	Friday	D)	Saturday	E)	Sunday	
9.	When twice 100 is multiplied by one quarter of 12, the result is								
	A) 150	B) 300	C)	600	D)	200	E)	250	

10. 1	0. 10 dm = ? m $T \longrightarrow W \longrightarrow X$								
	A) 100 D) 10	B) 20 E) 1	C) 5	$\uparrow \longrightarrow W \longrightarrow Y$	*				
	. T, U, V, W, X, Y, and Z are players that participated in a chess tournament. $T \to U$ means that T has won a game against U. How many players have not won a single game?								
A	A) 0	B) 1	C) 2	D) 3	E) 4				
	A 2-digit natural nur number that has	mber is multiplied by	/ a 2-digit natural	I number. The produ	uct could be a natu				
A	A) 4 digits	B) 6 digits	C) 5 digits	D) 7 digits	E) 2 digits				
13. \	Which of the following	ng expressions is th	e largest?						
A	A) 3!	B) 4!	C) 5!	D) 2! x 3!!	E) 6!				
		nnies, nickels, dime nany dimes did she		Andrea removes 7	coins having a tota				
A	A) 0	B) 1	C) 2	D) 3	E) 4				
I		of land measures 4 ts width increase by ase by			40 m				
	A) 18 m D) 14 m	B) 20 m E) 22 m	C) 16 m	10 m					
	l weigh 20 kg more How many kilogram	than half of my weig s do I weigh?	ght.						
,	A) 42 kg	B) 48 kg	C) 40 kg	D) 44 kg	E) 46 kg				
17. l	f you could spend \$	1 every second, ho	w much could yo	ou spend in a minute	e?				
A	A) \$50	B) \$58	C) \$60	D) \$72	E) \$24				
18. /	A die is rolled once.	What is the probab	ility of getting a 6	6?					
A	A) 3/6	B) 1/6	C) 2/6	D) 4/6	E) 5/6				
19. ŀ	How many even mu	Itiples of 3 are there	between 0 and	100?					
	A) 16 D) 17	B) 15 E) 14	C) 18						
	What is the value of $1 + 3 + 5 + 7 + 9 + .$	the following series 51?	: :						
	A) 668 D) 674	B) 670 E) 676	C) 672		• /				