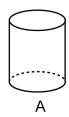
Mathematica Centrum Together, let's shape the mathematicians of the future

BYRON-GERMAIN PREPARATORY TEST 2017

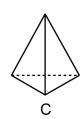
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1	3	+	1	+	ค	=	-7

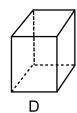
- A) 6
- B) 7
- C) 8
- D) 9
- E) 10

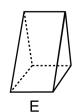
2. Which solid has 4 flat faces, 6 edges and 4 vertices?











3. Which product has the smallest ones digit?

- A) 1 x 2 x 3
- B) 3 x 4 x 5
- C) 6 x 7 x 8
- D) 7 x 9 x 11
- E) 9 x 11 x 13

- **4.** $20 \div (7 5) = ?$
 - A) 10
- B) 6
- C) 8
- D) 12
- E) 9

5. How many odd number are there between 19 and 31?

- A) 4
- B) 6
- C) 5
- D) 7
- E) 8

6. The value of X in the equation: 512 = 317 + X is

- A) 192
- B) 193
- C) 194
- D) 195
- E) 196

7. Round 220 to the nearest hundred. The answer is

- A) 100
- B) 200
- C) 50
- D) 150
- E) 300

8. 10 nickels = ? quarters.

- A) 10
- B) 6
- C) 3
- D) 4
- E) 2

9.	Andrea counted backwards from 30 by 3's. How many of the following numbers: 8, 12, 14, 21, and 27 were not counted by Andrea?									
	A) 1	B) 4	C) 2	D) 3	E) 0					
10.	An answering machine can store 10 minutes of messages. How many 20 second messages could it store?									
	A) 30 D) 60	B) 20 E) 40	C) 50							
11.	How many natural numbers between 7 and 77 are multiples of 7?									
	A) 8 D) 11	B) 9 E) 12	C) 10							
12.	What fraction of the figure is shaded?									
	A) 1/5	B) 1/2	C) 1/3	D) 1/4	E) 2/5					
13.	. Which two figures are rotation images of each other?									
	_ >	_		x + x						
					+					
	+	X +	+							
	A) II et III	B) II et IV	C) I et III	D) V et IV	E) III et 1V					
14	1 dm + 2 cm is equ	•	O) Tetili	b) vetiv	L) III Ct IV					
14.	A) 10 cm									
15	•	of a small square is	,	•	ŕ					
		or a ornan oquaro to	i, now many or are	o tollowing have a po	511110101 01 12.					
					1					
	A) 1 D) 4	B) 3 E) 5	C) 2							
16.	5. The number of lines of symmetry plus the number of diagonals in the diagram opposite is equal to									
	A) 15 D) 14	B) 16 E) 12	C) 13							

- **17.** How many 4-digit natural numbers between 1 000 and 4 000 have the same digits as 1 234 (including 1 234)?
 - A) 10
- B) 16
- C) 14

C) 7

- D) 18
- E) 12
- **18.** How many line segments (like AB and BD) can you draw using the 4 points in the diagram?
 - A) 8D) 5
- B) 9
- E) 6
- **19.** The clock shown in the diagram has just lost its minute hand. At what time, approximately, did it lose it?
 - A) 10:30
- B) 10:22
- C) 10:05
- D) 10:00
- E) 10:45

