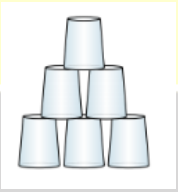
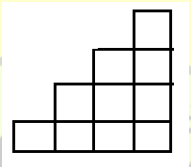
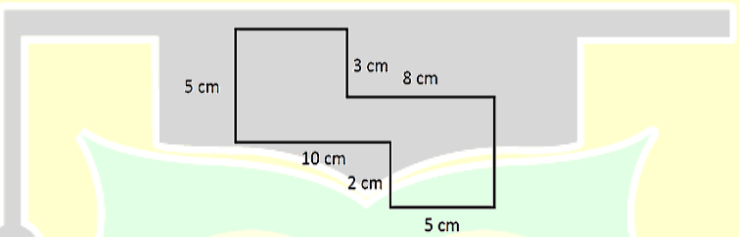
GRADE 5 - MONTHLY TEST 4

Duration: 60 minutes

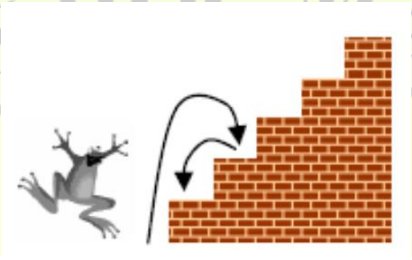
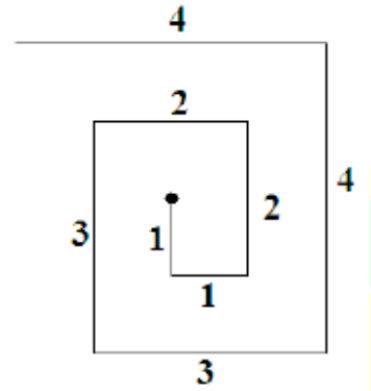
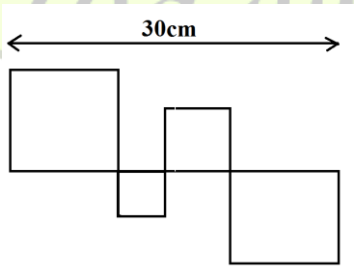
Name: …….. *Class: 5TA…*

From P1 to P15: for all students

No.	Questions	Answer
P1	A shopkeeper displays plastic cups like this. Each level has one less than the level below it, and the top level has only one cup. She keeps this pattern going until she has 28 cups. How many levels is this? 	
P2	Last year Alan worked 5 days a week for 48 weeks. The graph show how Alan travelled to work each day. On how many days did Alan travel by bus? 	
P3	The "staircase " below is 4 units tall and contains 10 units squares. Suppose the staircase were extended until it was 12 units tall. How many squares would it then contain all together? 	
P4	Draw the next two pictures: 	

P5	Evaluate 50 – 49 + 48 – 47 + 46 – 45 +...+ 4 – 3 + 2 – 1	
P6	In the repeating decimal 0.234234234... , what is the 50th number after the decimal point?	
P7	Eight teams entered a soccer tournament. Each team played every other team once. How many total games were played in the tournament?	
P8	Define a new operation "&". For any X, Y any two numbers, X & Y = $\frac{X}{Y}+\frac{Y}{X}$. Calculate: (2019 & 2020) & (2020 & 2019)	
P9	What is the perimeter of the figure? 	
P10	A basket full of apples weighs 19kg. A basket which is half full weighs 10 kg. How much does an empty basket weigh?	
P11	The first in a set of numbers is 2 and the fifth is 16. If every number is the sum of the previous two numbers (starting with the third number), then what is the sum of the first five numbers?	
P12	Two numbers are in the ratio of 3 to 7 and have a sum of 50. What is the smaller of the two numbers?	
P13	Given that $\frac{16}{35}=\frac{1}{a+\frac{1}{b+\frac{1}{c}}}$. Find the value of a+b+c	
P14	Calculate: 20192020 x 20202019 – 20192019 x 20202020.	
P15.	Find the 200th number in the following sequence: 1, 2, 2, 3, 3, 3, 4, 4, 4, 4, 5, 5, 5, 5, 5, ...	

From P16 to P20: for students who are in 4TA1 or students (in 4TA2, 3) who want to move to 4TA1

P16	MathFROG is sitting at the bottom of the stairs and would like to leap to the top. MathFROG leaps up two steps and then down one. Then MathFROG leaps up another two steps and down one. (Note that down one is considered another leap). If this pattern continues, how many leaps will be necessary for MathFROG to touch the 5th step the first time? 	
P17	Kathy drew an interesting design with her pen, shown to the right. The numbers indicate the length of each line in centimeters. Kathy continued this design until her pen ran out of ink. If the total distance of all the lines she drew is 3 meters, then what is the length of the longest line she drew? In what direction was her pen moving when she drew this line? 	
P18	The figure below is made of 4 squares. Find the sum of perimeters of these 4 squares. 	

P19	Beginning with a row of 20 coins. Anh takes the first coin, then every fourth coin after that. From the remaining coins, Brenda takes the first coin and every third coin after that. From the remaining coins, Chen takes the first coin and every second coin after that. Dimitris takes all the remaining coins. Does anyone get more coins than all the others?  A) Yes, Anh does B) Yes, Brenda does C) Yes, Chen does D) Yes, Dimitris does E) No, they all get the same number of coins.	
P20	I wrote the counting numbers joined together: 123456789101112131415161 7…. Which of the counting numbers was I writing when the 100th zero was written?	