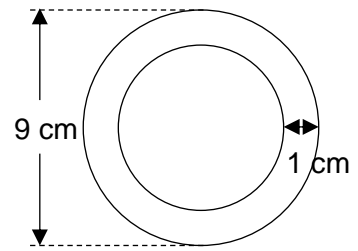
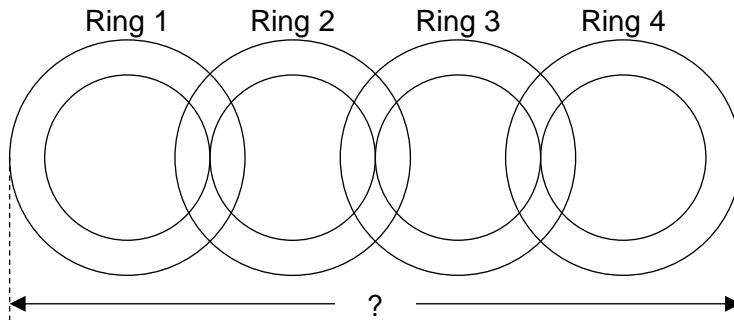


A Maths Question, PSLE 2020

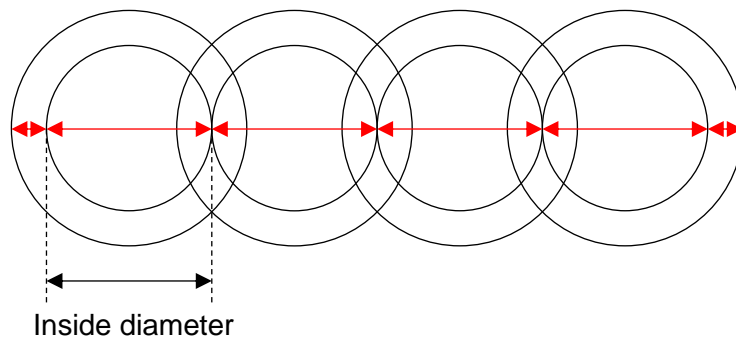
The diameter of the ring is 9 cm and the width of the ring is 1 cm as shown on the right. If we arrange such rings straight neatly as shown in the diagram below, answer each of the following questions.



- (a) Find the length from Ring 1 to Ring 4.  
 (b) If the total length is 198 cm, how many rings are there?



<< Plant Maths >>



<Writing>

- (a) Total length of the 4 rings =  $4 \times \text{inside diameter} + 2 \times \text{width}$

$9 - 2 \times 1 = 7 \text{ (cm)}$  → inside diameter of the ring

$2 \times 1 = 2 \text{ (cm)}$  → length of both ends

$4 \times 7 + 2 = 30 \text{ (cm)}$

- (b)  $198 - 2 = 196 \text{ (cm)}$  → length excluding both ends

$196 \div 7 = 28$  → the number of rings

Answer (a) 30 cm (b) 28