



ROYAL COLLEGE – COLOMBO 07.

UNIT TEST – FEBRUARY 2019

MATHEMATICS – GRADE 8

Name : Class : 40 minutes

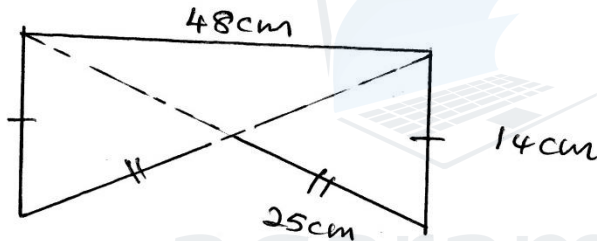
Answer all the questions.

(2×15) marks

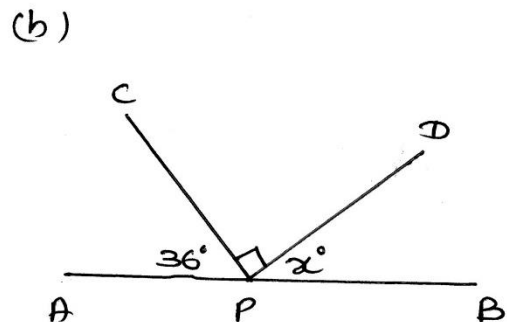
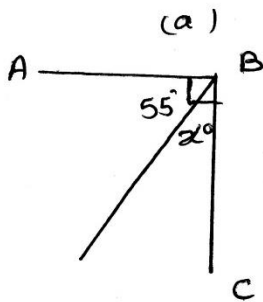
1. The term of a number is $7n + 3$. In this pattern,
i) Find the 5th term.

.....
.....
.....

2. Find the perimeter of the following Figure



3. Find the value of x and y .



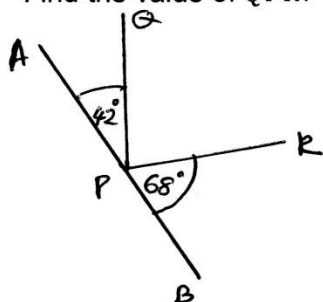
4. Calculate the supplements of the given angles,

$80^\circ \rightarrow$
 $25^\circ \rightarrow$

5. Find the complements of the given angles,

$18^\circ \rightarrow$
 $68^\circ \rightarrow$

6. Find the value of \widehat{QPR} .



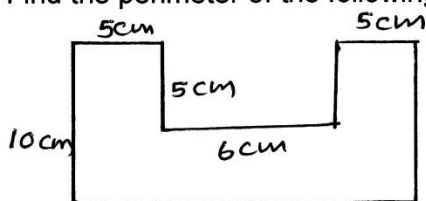
7. Find the general term of the number pattern 3, 8, 13, 18, ...

8. Which term is 141 in the pattern of the odd numbers?

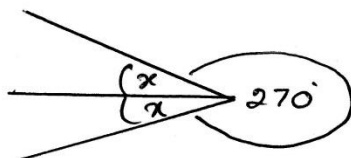
9. The length and breadth of a playground, which is construct to play volleyball, are 20m and 10m respectively. Find its perimeter.

10. What are the two triangular numbers whose sum is equal to fourth square number?

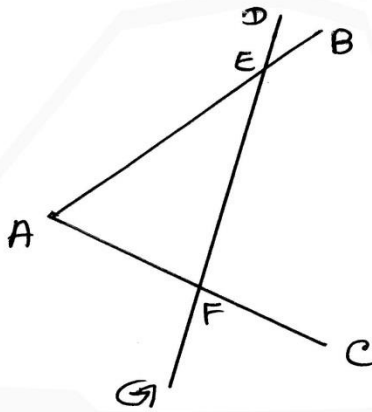
11. Find the perimeter of the following Figure.



12. Find the value x .



13. Name a pair of vertically opposite angle in this Figure.



14. The perimeter of a rectangular shaped cardboard lamina is 280cm . Its perimeter is five times of the perimeter of a square shaped cardboard lamina. Find the length of a side of the square lamina.

15. The length of a rectangular shaped land is 140m . Its perimeter is 60m greater than the perimeter of square shaped land. If the side length of the square is 80m find the breadth of the rectangular land.

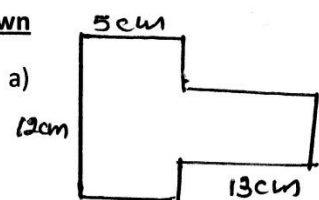
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PART - II

Complete the puzzle given below.

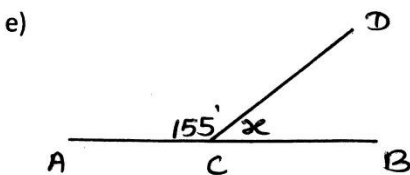
(a)		(b)	(c)	
		(d)		(e)
(f)				
	(g)		(h)	
(j)				

Down



The perimeter of the figure

- a) The perimeter of a square is 204cm. Find its side length.
- c) The next term of the number pattern 1, 4, 7, 10,...



Find the value of x.

- h) 8th triangular number.

Across

- a) 8²
- d) The 12th term of the number pattern 11, 22, 33, 44,... of the multiples of 11 starting from 11 and written in ascending order.
- f) The 7th term of the multiples of 7.
- g) The supplements of 57^o.
- j) which term is 84 in the number pattern 6, 12, 18, 24,... of the multiples of 6 starting from 6 and written in ascending order.