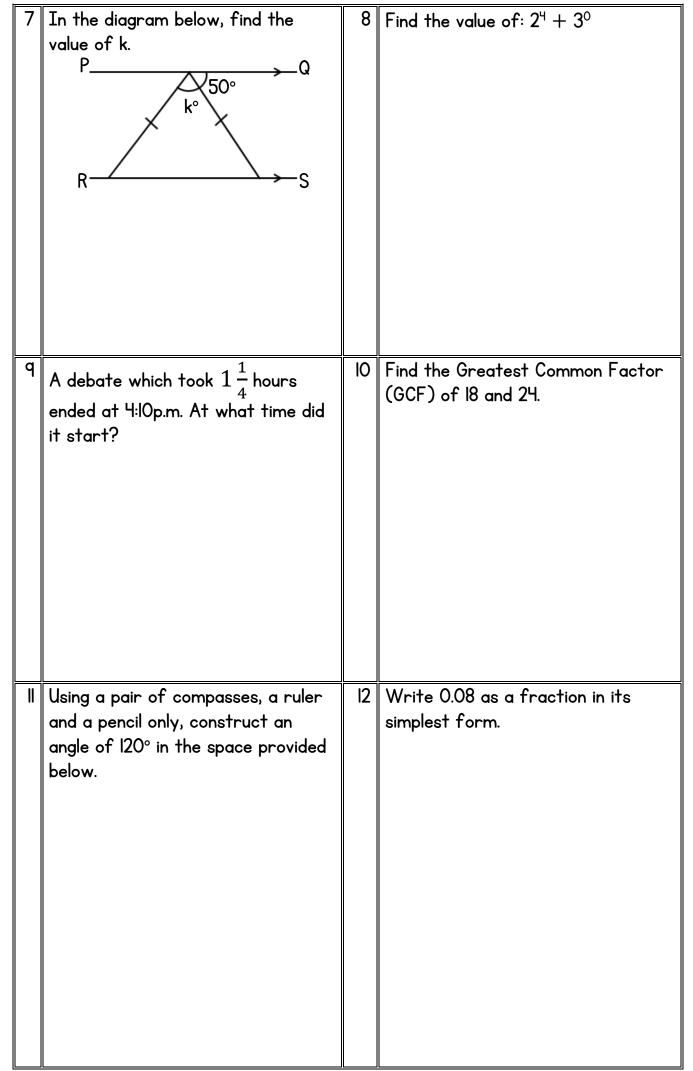
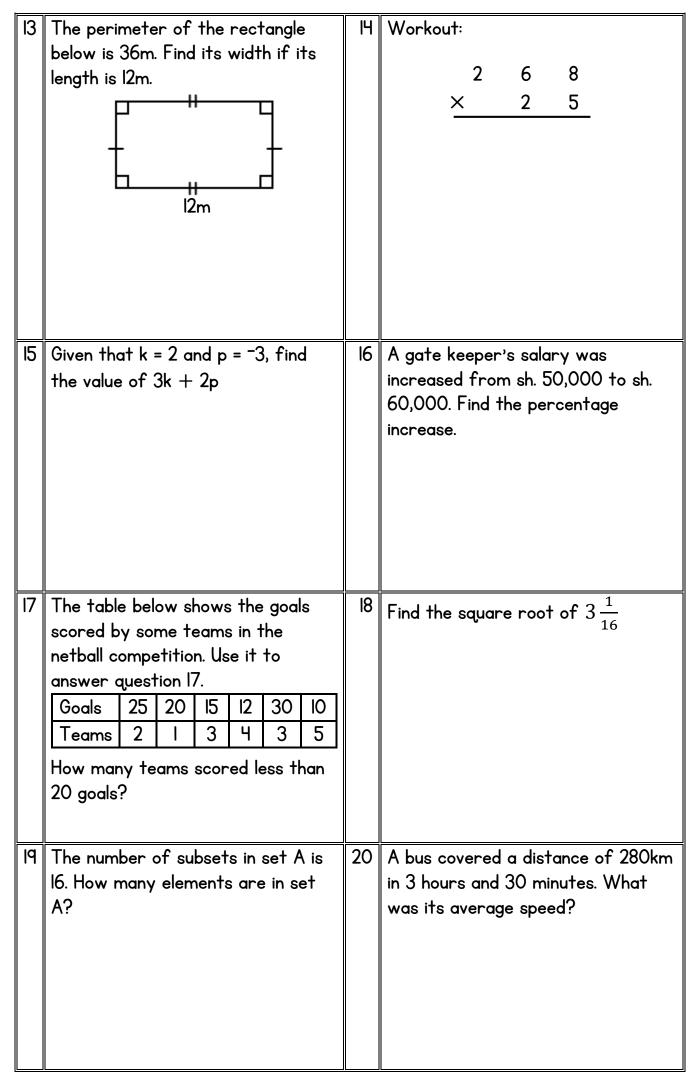
MATHEMATICS PLE 2012

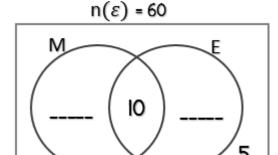
ı ı	CANDIDATE'S INFORMATION					
Ind	dex number	:				
No	ame	:				
Siç	gnature	:				
! Sc	hool name	:				
l Di	District name:					
SECTION A: 40 MARKS						
I W	orkout: 87 — 6	5	2	Write in words: 55,001		
3 Sir	mplify: -6 — -4		4	Solve: $\frac{2}{5}$ m = 4		
	,			5		
				2 1		
	ven that set Q mbers less than	= {all prime n 10}. Find n(Q).	6	Workout: $3\frac{3}{4} \div 1\frac{1}{2}$		





SECTION B: 60 MARKS

- 21 In a class of 60 pupils, 30 like English (E), y like mathematics (M) only, 10 like both subjects and 5 do not like any of the two subjects.
 - a. Use the information given above to complete the Venn diagram below.



b. Find the value of y.

a. How many pupils like Mathematics altogether?

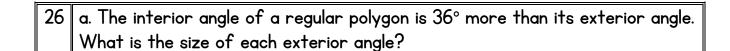
22 a. Using a ruler, a pair of compasses and a pencil only, construct a triangle ABC where line AB = 6.4cm, angle CAB = 60° and angle ABC = 75°.

b. Measure the length BC.

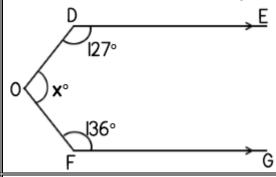
1					
	23	Asiimwe bought the following items from a shop.			
		3 bars of soap at sh. 1,200 per bar.			
		$1\frac{1}{2}$ kg of sugar at sh. 3,000 per kg.			
		$\frac{1}{2}$ kg of salt at sh. I,000 per kg.			
		a. What was his total expenditure?			
		b. If he had sh. 10,000, how much money did he remain with?			
	24	A cylindrical tin of radius 7cm contains 3080 cm ³ of cooking oil. a. Joan used 2l56cm ³ of the cooking oil. What is the height of the cooking oil remaining in the tin? $\left(use\ \pi = \frac{22}{7}\right)$			

b. Joan poured the remaining cooking oil into a rectangular tin with base area 77cm². What was the height of the oil in the tin?

25	a. Solve: 14p + 4 = 11	b. Solve the inequality:
		3x + 4 > x + 8



b. In the figure below, DE is parallel to FG, angle ODE = 127° and angle OFG = 136° . Calculate the size of angle x.

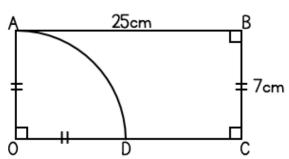


In Jumbo primary school, $\frac{1}{4}$ of the pupils in P.7 like science, $\frac{2}{3}$ of the remainder like Mathematics. The rest of the pupils like English. If those who like English are 33, find the total number of pupils in P.7.

28 a. Change 13_{ten} to base two.

b. Find the number which has been expanded below. $(5 \times 10^5) + (4 \times 10^3) + (9 \times 10^0)$

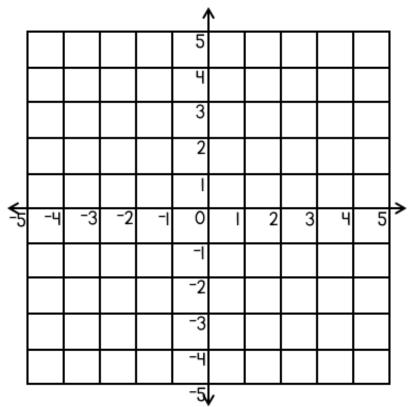
29 Carefully study the diagram below and use it to answer the questions that follow. Line AB = OC and AO = OD.



a. Find the length of arc AD? $\left(use \ \pi = \frac{22}{7}\right)$

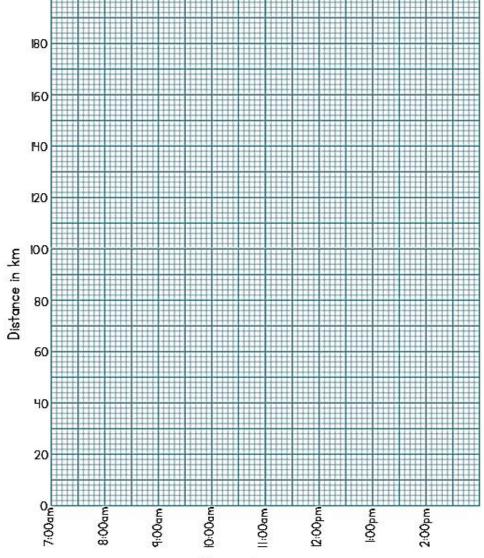
b. Workout the perimeter of ABCDA

30 a. On the graph below, plot the points A(-2 , +3), B(+5 , +3), C(-2 , -1) and D(+1 , -1).



- b. Join A to B, B to D, D to C and C to A.
- c. Name the quadrilateral formed after joining the points.

- A man's salary was increased by 30% to sh. 312,000 per month.
 - a. What was the man's monthly salary before the increment?
 - b. If 5% of his new salary is subtracted as tax, what was his final salary?
- Okidi left Kampala at 7:00am driving a lorry at average speed of 40km/hr 32 for 2 hours to Jinja. He rested for one hour at Jinja then continued to Tororo at an average speed of 50km/hr for another 2 hours.
 - a. Use the information to show Okidi's journey on the graph below.



Time in hours

b. Calculate Okidi's average speed for the whole journey.