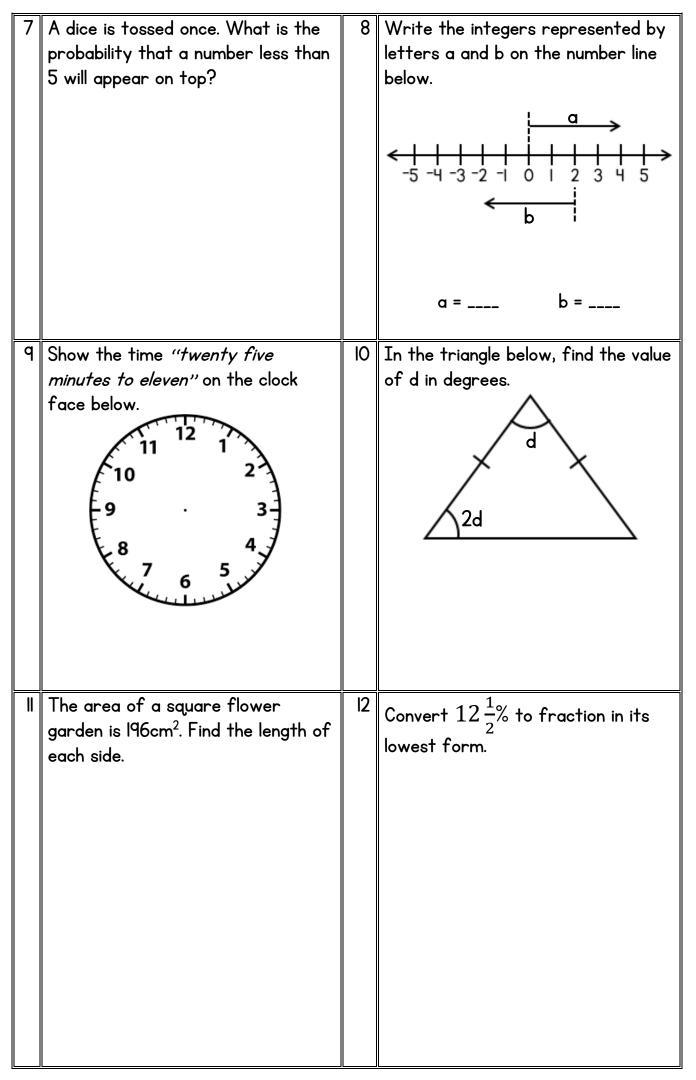
MATHEMATICS PLE 2016

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	SECTION A	<u>: 7(</u>	<u> MARKS</u>
I	Workout: 23 + 42	2	Simplify: 3a + a — 2a
3	Workout: $\frac{5}{9} \div \frac{2}{3}$	4	Use the Venn diagram below to find $n(P\cap Q)$, \mathcal{E} $\begin{array}{c c} \mathcal{E} & & & \\ \hline P & & & \\ \hline & c & & \\ \hline & e & & \\ \hline & b & & \\ \hline & g & \\ \hline \end{array}$
5	Without dividing, show which of the numbers 140 and 5070 is divisible by 3.	6	Workout: 110 two X 11 two

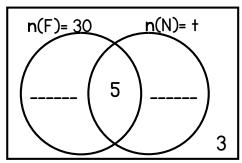


13	The prime factors of 12 and 90 are given below; $12 = 2^2 \times 3$ $90 = 2 \times 3^2 \times 5$ Use the given prime factors above to find the Lowest Common Multiple (LCM) of 12 and 90	I	A wire of length 161 metres was shared by some boys. The average length of the wire each boy got was 23 metres. Find the number of boys who shared the wire.
15	Find the length of the arc DK in the diagram below. ($use \pi = \frac{22}{7}$)	16	Apio bought 30 books at sh. 3,000 per dozen. How much money did she spend?
17	A motorist travels 64 kilometres in 40 minutes. Find the speed of the motorist in kilometres per hour.	18	The area of the shaded part of the cuboid below is I2cm². Calculate the volume of the cuboid.

I		ı	
19	Using a ruler, a pencil and a pair of	20	Hakim is three times as old as
	compasses only, construct an angle		Lucky. Their total age is 52 years.
	of 135° in the space below.		How old is Lucky?
	•		·

SECTION B: 60 MARKS

- 21 In a class of 41 pupils, 30 play football (F), t play netball (N), 5 play both football and netball and 3 pupils do not play any of the two games.
 - a. Use the above information to complete the Venn diagram below.

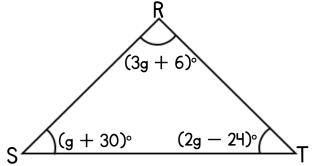


b. Find the value of t.

- 22 a. Write 955 in Roman numerals.
 - b. Find the product of the value of 2 and the value of 8 in the number 4820.

23	a. Simplify: $\frac{0.12 \times 5.4}{0.03 \times 0.6}$
	a. Simplify: $\frac{1}{0.03 \times 0.6}$
	b. Express the recurring decimal 0.5454 as a common fraction.
24	The exchange rates in a bank are as follows.
	l US. Dollars (\$) = Ug. sh. 3,400
	l British Pound Sterling (£) = Ug. sh. 4,600
	l Kenya shilling (K.sh) = Ug. sh. 35
	a. Convert Ug. sh. 1,840,000 to British Pound Sterling.
	b. If a set of chairs costs \$700, find the equivalent cost of the chairs in Kenya shillings.

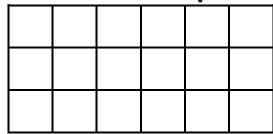
25 Study the figure below and use it to answer the questions that follow.



a. Find the value of g.

b. Calculate the size of angle RST.

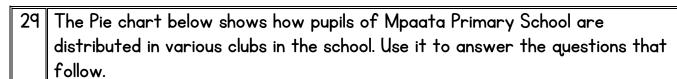
The figure below represents a rectangular floor which is covered by square tiles of area 400cm² each. Use it to answer questions that follow.

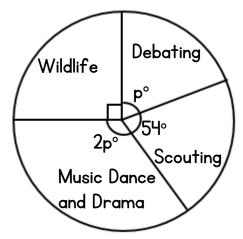


a. Find the area of the rectangular floor.

b. Calculate the perimeter of the rectangular floor.

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27	A taxi driver left town A for town B at 10:30a.m driving at a speed of 80 kilometres per hour. The driver reached town B at 2:00p.m.
	a. Calculate the time taken by the driver to reach town B.
	b. Find the distance between town A and town B.
20	
28	Hajati bought 120 shares from a village SACCO at a simple interest rate of 30% per year. Each share costs sh. 3,000.
	a. Find her total interest after $3\frac{1}{2}$ years.
	2 70 41 51
	b. Calculate the total amount of money Hajati has in the SACCO.





a. If there are 216 pupils in the debating club, find the total number of pupils in the school.

b. Express the number of pupils in the debating club as a percentage of the whole school.

A cylindrical tank of diameter 70cm contains water to a height of 100cm. Find in litres the amount of water the tank contains. $\left(use\ \pi=\frac{22}{7}\right)$

31	a. Given that $m=3k$ and $k=5$, find the value of $2k+6m$ b. Write the solution set for the inequality: $6 < x < 10$
32	A school library is 70 metres east of the main hall. The staffroom is 60 metres from the library on a bearing of 240°.
	a. Using a scale of Icm represent IOmetres, show the three places on an accurate diagram.
	b. Find the shortest distance between the main hall and the staffroom.