

SUGGESTED ANSWERS FOR PLE 2022

1	9,009,087	2	0.5	3	-100, -1, 0.5, $\frac{2}{3}$, 0.82, 1, 5, 100
4	5days and Ohrs	5	243, 729	6	Yes is divisible by 11
7	$-8 + 20 = 10x - 4x$ $12 = 6x$ $12 \div 6 = x$ $x = 2$	8	$\frac{87}{140}$	9	5.63kg
10	1125 learners	11	7	12	18,198,650
13	41,600Frw	14	108,455,567	15	61,875
16	a) 4 b) 96	17	GCF = 4	18	Ratio = 1 : 3
19	132,500Frw	20	4,600,000	21	5^5
22	$t = 115^\circ$	23	0.625	24	23507kgs
25	a) 260kg b) 97	26	$C = D \times \pi$ $C = 42 \times \frac{22}{7}$ $C = 132\text{cm}$	27	$D = (101 - 1)$ $= 100 \times 20$ $= 200\text{cm}$
29	31.5%	33	1000frw/kg 9,000frw 3000frw/kg Total = 29400frw Balance = 600frw	28	$\frac{120 \times 4}{3}$ = 160km
				30	$\frac{40 \times 5}{20}$ = 10
31	a) L = 20m b) (i) = 27m ² (ii) H = 3M				
32	a) March b) May c) 18000kg d) 9900,000Frw				
34	$X = 180^\circ - (80^\circ + 10^\circ)$ $x = 50^\circ$ b) D = 12km/hr				
35	a) 876510 b) Mixture = 600kg 2nd type = 600kg - 200kg = 400kg Price mixture 280F/kg x 600kg = 168000FRW Price of 1 = 3600Frw x 200kg = 72000F Price of 2nd = 168000 - 72000 = 96000 frw				

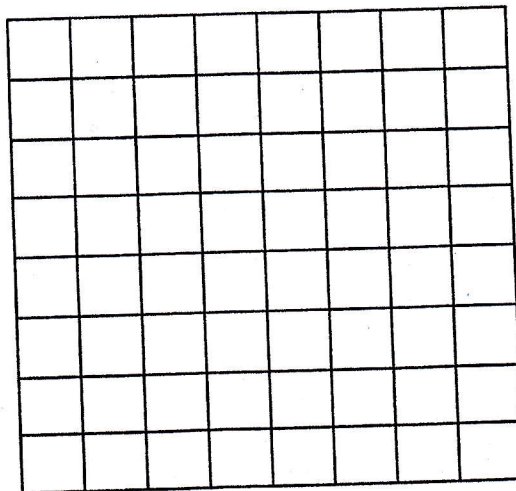
35 40 children use 24kg of sugar in 30 days. All children use equal quantities of sugar each day.

(a). If there are 50 children, in how many days would they use 24kg of sugar? (3.5 mks)

(b). How many children would use 14kg of sugar in 35 days? (3.5 marks)

36 The distance from town A to town b is 200km. A car leaves town A at 7:00am and travels at an average speed of 60km/hr. On the same day a bus leaves town A at 8:00am and travels at an average speed of 90km/hr. If both vehicles don't stop on the way, at what distance from town A does the bus catch up with the car? (7 marks)

37 You are given the following points and their coordinates:
O(0, 0), A(1, 1), B(2, 2), C(3, 3), D(4, 4) and E(5, 5). (7 marks)



(a). Plot the coordinates of these points on the squared paper above and write the letters which correspond to the points.

(b). Join the points with a line.

(c). From the graph, complete the co-ordinates of: F(0, 5, ___), G(____, 2, 5).