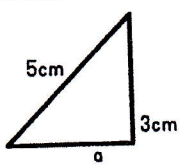
SUGGESTED ANSWERS FOR PLE 2021

1	Twenty million eight hundred and two thousand six hundred four.	2	The place value of 6 is ten thousands	3	87000
4	a) -32 b) +4	5	36	6	$\frac{180}{60}$
7	$(-2)^2 = +4$	8	6kg cost 2760F 1kg costs 2760f ÷ 6 = 460F 12kg cost 460 x 12 = 5520F	9	6880
10	9.4	11	52300g = 52300000mg	12	$3a^3b^3$
13	$\frac{1}{32}, \frac{1}{64}$	14	2100	15	$72 = 2^3 \times 3^2$
16	$\frac{7}{8}$	17	98 x 120 = 11760 books	18	30000F
19	D=rx2=24x2=48cm Circumference 314 x 48cm =150.72cm	20	16 x 16 = 256	21	$90^0 - 60^0 = 30^0$
22	281	23	5hrs = 300mns	24	$\frac{45}{10} = 4.5$
25	$(2x - 1) = 5(x - 2)$ $2x - 1(5x - 10) = 0$ $2x - 1 - 5x + 10 = 0$ $-3x + 9 = 0 = -3x = -9$ $X = \frac{9}{3} = 3$	26	 $a^2 + 3^2 = 5^2$ $a^2 + 9 = 25$ $a^2 = 25 - 9$ $a^2 = 16$ $a = \sqrt{16}$ a = 4cm c) $A = \frac{1}{2}bh$ $A = \frac{1}{2} \times 4cm \times 5cm$ $A = \frac{1}{2} \times 20cm^2$ $A = 10cm^{2x}$	27	20% of a number = 60 A number is 100% =(60 x 100) ÷ 20 = 300
28	A number of boys $= \frac{2}{5} \times 60$ = 24 boys b) number of girls $= \frac{3}{5} \times 60$ = 36girls.				
29	125, 000FRW = 5% of the salary. Her salary is 100% = $\frac{125,000 \times 100}{5}$ =2,500,000F			30	Distance = speed x time Distance = 90 x 6 Distance = 540km
31	a) 3×180^0 $= 540^0$ b) A hexagon has 6 sides. c) $360 \div 6 = 60^0$	32	R = 6%, S.I = 144,000FRW, T = 9 months Principal = $\frac{S.I \times 100}{R \times T}$	33	
34	1 kg of the mixture cost 800Frw Selling the yellow maize flour alone causes a loss of: (900 – 100) = 100Frw per kilogram. Selling 4kg results in a loss of (100 x 4) = 400Frw Selling the white maize flour alone results in again of (800 – 700) = 100Frw . The number of a kilogram for the second type is 400+100 = 4kg				
35	a) marks | number of pupils b) 24 pupils appeared for the test c) 2 pupils scored 76% d) Number of students who got less than 50% = 11 pupils e) the highest mark scored was 90%				