

SUGGESTED ANSWERS FOR PLE 2019

1	9, 8, 7, 5, 4, 3, 2, 1	2	-8, -4, -1, +2, +7	3	Ten millions
4	Two hundred seventy seven million, eight hundred eighteen thousand, five hundred ninety nine.	5	$48 - (15 + 4)$ $48 - (19)$ $48 - 19 = 29$ $48 - 19 = 28$	6	$\frac{45000 \times 5}{100} = 2250f$
7	$2x - 2 = x - 3$ $2x - x = -3 + 2$ $x = -1$	8	77,000	9	$2\frac{5}{6} = \frac{17}{6} = 2.83$
10	$= (4 \times 4 \times 4) - 10$ $= 64 - 10$ $= 54$	11	$\frac{4.28 + 63.12}{0.02} = \frac{67.4}{0.02}$ $674 \div \frac{2}{100} = \frac{67.4 \times 100}{2}$ $= 3370$	12	2, 5, 11, 23, 47, 95
13	$\frac{(6+100)}{30} \div \frac{2}{6}$ $\frac{106}{30} \div \frac{6}{6} = \frac{53}{20}$ $= \times \frac{12}{20}$	14	$10500 \div 50 = 210$ books Each will get 210 books	15	$9 \times (-6) = -54$
16	Twenty one million, eight hundred ninety two thousand , forty five	17	$(6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6) - (4 \times 4 \times 4 \times 4)$ $= 46656 - 256$ $= 46400$	18	$GCF = 2 \times 2 \times 2 \times 3 = 24$
19	$180^\circ - 80 = 100^\circ$	20	$P = 8 + 2 + 9 + 4 + 6 + 5$ $P = 34cm$	21	$(12 \times 5000) + (20 \times 1000)$ $= 60000 + 20000$ $= 80000F$
22	$24 \times 60 mins$ $= 1440 mins$	23	$\frac{17}{5} + \frac{3}{4}$ $\frac{68+15}{20}$ $\frac{83}{20}$ $= 4\frac{3}{20}$	24	226.28cm
25	0.55, $\frac{1}{2}$, $\frac{2}{5}$, 0.12, 0.05	26	$12 \times 12 = 144$	27	$= 25cm$ $b = 84cm$
28	$8:30 + 3\frac{1}{2}$ $= 8:30 + 3hr 30min$ $= 12:00hr$	29	$\frac{160000 \times 100}{10}$ $= 1600,000F$	30	$486.3232m^2$

<p>31</p> <p>i. $I = \frac{240000 \times 20 \times 6}{100 \times 12} = 24000f$</p> <p>ii. $24000 + 2400 = 264000f$</p> <p>b) i loss = $4500f - 32000f = 13000f$</p> <p>ii % loss = $\frac{13000 \times 100}{45000} = 28.8\%$</p>	<p>32</p> <table border="1" data-bbox="860 239 1396 459"> <thead> <tr> <th>Item no</th> <th>Unit price</th> <th>Quantity</th> <th>Total amount</th> </tr> </thead> <tbody> <tr> <td>1.Rice</td> <td>1000frw</td> <td>10kg</td> <td>$1,000 \times 10 = 10,000f$</td> </tr> <tr> <td>2.meat</td> <td>3000F</td> <td>20kg</td> <td>$3000 \times 20 = 60,000f$</td> </tr> <tr> <td>3.oil</td> <td>300F</td> <td>15 litres</td> <td>$1500 \times 15 = 7500f$</td> </tr> <tr> <td>4.</td> <td>300F</td> <td>15kg</td> <td>$300 \times 15 = 4500f$</td> </tr> <tr> <td colspan="3"></td> <td>Total = 82,000f</td> </tr> </tbody> </table> <p>ii) He spent more money on meat</p> <p>iii) $92000f - 82000f = 10,000f$</p>	Item no	Unit price	Quantity	Total amount	1.Rice	1000frw	10kg	$1,000 \times 10 = 10,000f$	2.meat	3000F	20kg	$3000 \times 20 = 60,000f$	3.oil	300F	15 litres	$1500 \times 15 = 7500f$	4.	300F	15kg	$300 \times 15 = 4500f$				Total = 82,000f
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<p>33</p> <p>$= 10 \frac{2}{3}$</p> <p>i) 20h 40mins</p> <p>ii) 320km</p> <p>iii) 160km</p> <p>iv) 10h 40minutes</p>	<p>34</p> <p>a) 11 am - 8:30 am = 2h 30min</p> <p>b) $54cm^2$</p> <p>c) 4cm</p>																								
<p>35</p> <table border="1" data-bbox="470 1142 1096 1467"> <thead> <tr> <th>Marks (x)</th> <th>Frequency (f)</th> <th></th> </tr> </thead> <tbody> <tr> <td>20</td> <td>4</td> <td>80</td> </tr> <tr> <td>30</td> <td>7</td> <td>210</td> </tr> <tr> <td>45</td> <td>6</td> <td>270</td> </tr> <tr> <td>50</td> <td>2</td> <td>100</td> </tr> <tr> <td>65</td> <td>9</td> <td>585</td> </tr> <tr> <td>70</td> <td>5</td> <td>850</td> </tr> <tr> <td>$\sum x = 280$</td> <td>$\sum f = 38$</td> <td>$= 1595$</td> </tr> </tbody> </table> <p>i. 33 pupils</p> <p>ii. 65</p> <p>iii. Modal frequency is 9</p> <p>iv. Range = $70 - 20 = 50$</p> <p>v. Mean = $\frac{1595}{38} = 48.3$</p>	Marks (x)	Frequency (f)		20	4	80	30	7	210	45	6	270	50	2	100	65	9	585	70	5	850	$\sum x = 280$	$\sum f = 38$	$= 1595$	
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