Revision (Form 1 Chapter 1-5)

1. a) Simplify $5(a - b) - 4b$

   b) Simplify $\dfrac{1}{1+\frac{1}{1+\frac{1}{2}}}$

   c) Using scientific expression, express the value 0.00000058974 to 3 significant figures.

   d) If a seller want to put 72 apples, 84 mangoes, and 96 oranges into x number of boxes, if the mixture of 3 different kind of fruits number are the same, find x.

2. a) Calculate $\dfrac{3\frac{2}{3}-2\frac{4}{5}}{2-\frac{1}{3-\frac{1}{2}}}$

   b) In a bottle manufacturing factory, there will be 20 defective products among 100 new bottles made, if they get an order of 8000 pieces of bottles, how many bottles should be prepared by the factory?

   c) Mr Chen take a bank loan of RM 90000 from XYZ bank for 10 years with annual interest 10%, how much is his monthly instalments?

3. a) Find $1\frac{1}{2}\times1\frac{1}{3}\times1\frac{1}{4}\times1\frac{1}{5}...\times1\frac{1}{99}$

   b) The price for sweet A and B are shown as below:

   A: RM 1.20 per kg

   B: RM 1.60 per kg

   If 50 kg of sweet A mixed with 30kg of sweet B, how much is the price for each kg?

   c) Given $3p + 5q = 31$, if p is prime number and q is odd number, find value of p and q.

Item	Price per kg	Quantity
P	RM 18.50	2 kg
Q	RM 20.80	500 g
R	Rm 15.00	8kg 500 g

4. a) Table shows three types of item bought by Muthu. He has RM 200, how much does he leave after paying for all the items?

   b) An electricity bill showed a reading of 1350 at beginning of the month and a reading of 2580 at the end of the month. If electricity charges were based on the following calculation, how much payment was required?

   First 100 units - RM 0.20 per unit;

   Next 900 units - RM 0.25 per unit;

   Balance – RM 0.30 per unit.

   c) Given that $1\frac{1}{10} + \frac{11}{100} + \frac{x}{1000} = 1.219$. find the value of x

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5. a) Calculate

   a. 80% of RM 500

   b. 125% of RM 2000

   b) The normal price of a watch is RM 450. It was sold at RM 382.50. Calculate the percentage of discount of the watch.

   c) Mei Mei invests RM 25000 in a unit trust with the dividend of 6% per annum. Calculate the simple interest she will get after 6 month.

   d) Mr. Lim sold a MP3 player and a mobile phone for RM 400 each. He made a 25% profit on selling MP3 player and loss 25% on selling mobile phone. What was his profit (or loss) on selling the two items?

6. a) Arrange the fraction $\frac{1}{2}, -\frac{1}{4}, \frac{7}{8}, -\frac{2}{3}$ in ascending order

   b) Calculate $[44 + (-9)] - [16 + (-21)]$

   c) Find the sum of $(\frac{1}{2}, 1\frac{3}{4}, -2\frac{5}{6})$

   d) Find the H.C.F and L.C.M of $2^2 \times 5, 2 \times 5^2 \times 7$ and $2 \times 3 \times 5 \times 7^2$

7. a) Calculate $\dfrac{2}{1 + \dfrac{2}{1 - \frac{1}{3}}}$

   b) A man plans to give $\frac{3}{7}$ of his savings to his wife, $\frac{1}{2}$ of the remainder to his son and the rest to be divided equally between his two grandchildren. If each grandchild would receive RM 1400, how much would his wife received?

   c) A parking area can accommodate 1200 vehicles. 30% of them are reserved for vans and the rests are for cars. On a certain day, there are 150 vans and x cars in that area. It is given that area is 65% full, find the value of x .

8. a) Calculate $[2\frac{1}{2} \div (1\frac{2}{3} \times 6\frac{3}{10} - 2\frac{1}{6})] + 1\frac{3}{5}$

   b) A, B, C three persons go to library for every 4 days, 6 days and 9 days respectively, if the latest time they met was 23 May, when will be the next time they can attend the meeting together?

   c) A person borrow RM5000 from bank for 4 years with annual interest 8%.Find

   i. Total amount of interest in 4 years later.

   ii. Monthly installment

9. a) Mr Jun has an amount of cash. He gave RM 2000 to charity and took $\frac{12}{25}$ of the cash divide equally for his 3 kids, each of them get RM 2000. What the percentage of amount that he gave to the charity?

   b) Find HCF of 2016 and 3528

   c) Simplify $\frac{2016}{3528}$

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