

BENGKEL MAT112 NOV2019

SESI I

TRADE AND CASH DISCOUNT

1. The net price of an item listed for RM1,500 after deducting a trade discount of 20%, 15% and $x\%$ is RM969. Find x .
2. A bill of RM3,200 (including transportation cost of RM88) is offered a trade discount of 20% and 10%. What is the payment to settle the invoice?
3. A retailer received an invoice dated 21 May 2019 for RM3, 400. This amount included a handling charge of RM250. The trade discounts offered were 8% and 5% and the cash discount terms were 3/15, 2/20 and n/30. If the invoice was paid on 6 June 2019, find the amount paid.
4. An invoice dated 5 February 2019 of 50 branded dresses were bought at RM8,000 excluding the transportation cost and insurance of RM150 and RM50 respectively. 12% and 10% of trade discounts and the cash terms of 5/10, n/30 were given. Find
 - (i) the single discount equivalent to the trade discounts;
 - (ii) the amount to be paid if the payment made on 15 February 2019.
5. A company received an invoice dated 25 March 2019 for the purchase of an item. The invoice offered trade discount of 20% and cash discount terms of 2/15, n/30. On 2 April 2019, the company paid RM1,190 including transport cost of RM14 to settle the invoice. What was the list price of the item?

MARKUP & MARKDOWN

1. A retailer buys a computer for RM3,600. The estimated operating expenses incurred for the sale of the computer are 5% of the retail price. If the retailer wants a 20% net profit based on the retail price, find:
 - (i) the retail price
 - (ii) the net profit
 - (iii) the markup.
2. A dealer bought a radio for RM110. He wishes to obtain a net profit of RM40 from the sale of the radio. Operating expenses will amount to 25% of the selling price.
 - (i) What should be the selling price of the radio?
 - (ii) What is the breakeven price of the radio?
3. Lee Company buys 40 power drills at RM600 each. The company wants a gross profit of 40% based on the selling price and the total operating expenses is RM600.
 - (i) Find the selling price of a power drill.
 - (ii) Find the net profit of a power drill.
 - (iii) Find the breakeven price of the power drill.

- (iv) The company only manages to sell 35 power drills. The remaining five drills are sold at 15% markdown. What is the selling price of each of these five drills? Did the company make a profit at this selling price?
4. A retailer buys a set of plates for RM500. Operating expenses incurred during the sale of these plates are 10% of the cost price. If the retailer makes a 25% net profit based on cost, find:
- (i) the retail price
 - (ii) the gross profit
 - (iii) the net profit
 - (iv) the breakeven price
 - (v) the maximum markdown that could be offered to customers so that there is no profit or loss
 - (vi) the net profit or loss if the retail price is RM600.

TRADE AND CASH DISCOUNTS + MARKUP MARKDOWN

1. Tony purchases a machine on 8 September 2019 with a list price of RM8,400. The trade discount given is 10% while the cash discount terms are 4/15, n/30. He then sells the machine and makes a gross profit of 25% of the selling price. The operating expenses are 4% of the selling price. Find:
- (i) the amount paid by Tony on 22 September 2019.
 - (ii) the selling price
 - (iii) the breakeven price
 - (iv) the maximum markdown rate that could be offered without incurring any loss.

INSTALMENT PURCHASES

1. A car costing RM13,000 is purchased by paying a down payment of RM1,000 and the balance is settled with 36 monthly payments. If the interest charged is 8% on the original balance, find:
- (i) the total interest charged
 - (ii) the monthly payment.
2. A man purchased a car for RM12,750 by making instalment payments. If he was charged 4% based on the reducing balance and the total interest paid was RM1,041.25, calculate the number of monthly payments he had made using the constant ratio formula.
3. A washing machine selling for RM2,300 cash can be purchased through an instalment plan by paying RM600 down payment and the balance settled by making 18 monthly payments of RM100 each. Calculate the approximate annual percentage rate charged using the constant ratio formula.
4. A dining set listed at RM1,999 cash was purchased by making a down payment of RM999 and 30 monthly payments of RM35 each. Calculate:
- (i) the instalment price
 - (ii) the total interest charged
 - (iii) the flat rate that was charged
 - (iv) the APR that was charged.