The owner of a computer store is offering a discount on a computer sold in the store.

Computer Sale!

Original Price: $598.00
25% off original price

8% tax applied after discount

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34. Part A

The owner offers a payment plan where the total cost of the computer is paid in 6 equal monthly payments.

- Determine the amount of each monthly payment.
- Show your work or explain your answer.

Enter the monthly payment and your work or explanation in the space provided.

Part B

A different computer is advertised as 40% off of the original price. After the discount, the tax is $44.64.

- Determine the total price of this computer after the discount and tax are applied.
- Show your work or explain your answer.
- Determine the original price of this computer.
- Show your work or explain your answer.

Enter your answers and your work or explanations in the space provided.

	Unit 3 #34 Rubric Part A
Score	**Description**

2	Student response includes each of the following 2 elements:
	  • Correct amount of each payment, $80.73
	  • Valid work shown or explanation given
	
	Sample Student Response:
	
	The discounted price is 75% of the original price, so I need to multiply the original price by 0.75. Then, I will multiply that amount by 0.08 to determine the sales tax. Adding the two together will give me the total price of the computer. I then divide the total price of the computer by 6 to determine the six monthly payments.
	$598.00 × 0.75 = $448.50
	
	$448.50 × 0.08 = $35.88
	$448.50 + $35.88 = $484.38 total cost
	$484.38 ÷ 6 = $80.73 per month

1	Student response includes 1 of the 2 elements.
0	Student response is incorrect or irrelevant.
	Unit 3 #34 Rubric Part B
Score	**Description**

4	Student response includes each of the following 4 elements.
	  • Correct total price of the different computer, $602.64
	  • Valid work or explanation given
	  • Correct original price of the different computer, $930.00
	  • Valid work or explanation given
	
	Sample Student Response:
	
	The total cost of the different computer is $602.64 and the original price is $930.00.
	The tax is $44.64, which is 8% of the sale price of the computer, d.
	$$\frac{44.64}{d} = \frac{8}{100}$$
	$4464 = 8d$
	$d = 558.00$
	The price of the computer after discount and sales tax is $602.64.
	$558.00 + 44.64 = 602.64$
	The sale price is 60% of the original price, p.
	$$\frac{558.00}{p} = \frac{60}{100}$$
	$55800 = 60p$
	$p = 930.00$