**Example 1: Ordering Class Shirts**

A wholesale t-shirt manufacturer charges the following prices for t-shirt orders:

* $20 per shirt for shirt orders up to 20 shirts.
* $15 per shirt for shirt between 21 and 40 shirts.
* $10 per shirt for shirt orders between 41 and 80 shirts.
* $5 per shirt for shirt orders over 80 shirts.

Sketch a graph of this discontinuous function.

**Question:** You've ordered 40 shirts and must pay shipping fees of $10. How much is your total order?

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**Example 2:** In many states a "sales tax" is added to most goods that you buy. The tax rate varies from state to state. Let's suppose that your particular state issues a sales tax on any goods purchased. You are selling candy bars. The taxable amounts and tax imposed up to $1 are shown below.

* For amounts between $0.01 and $0.20, the tax is $.01.
* For amounts greater than $0.20 and less than or equal to $0.40, the tax is $0.02.
* For amounts greater than $0.40 and less than or equal to $0.60, the tax is $0.03.
* For amounts greater than $0.60 and less than or equal to $0.80, the tax is $0.04
* For amounts greater than $0.80 and less than or equal to $1.00, the tax is $0.05.

Complete the graph to show the tax that imposed on candy bars.



Use the graph to answer the following questions:

1. A candy bar costs $0.55. What is the total cost with tax?
2. Your aunt purchased three candy bars at $0.55 a piece. What is the total cost with tax?
3. Someone purchased 4 candy bars at $0.55 a piece. They gave you $2 and a quarter. Is this enough money to cover the candy bars and the tax? Explain your answer.

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