



Comparing Measurement with Tables and Equations Name:

Solve each problem.

1) Two companies are selling electricity by Kilo-watt hour. The cost of electricity for Company A is represented in the table below, while the cost for Company B is represented by an equation, with y representing the total cost in dollars for x kilowatt hours.

Company A

Total Kilowatt-Hours	Total Cost (\$)
1379	1384
179.27	179.92

Company B

$$y = 0.11x$$

Answers

1. _____
2. _____
3. _____

Find the total cost in dollars of buying 1,073 kilowatt hours of electricity from the cheapest company.

2) Two companies are selling sugar by the pound. The cost of sugar for Company A is represented in the table below, while the cost for Company B is represented by an equation, with y representing the total cost in dollars for x pounds of sugar.

Company A

Total Pounds	Total Cost (\$)
19	12
5.51	3.48

Company B

$$y = 0.23x$$

Find the total cost in dollars of buying 13 pounds of sugar from the more expensive company.

3) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with y representing the total price and x representing the square feet of the house.

Contractor A

Square Feet	Total Price (\$)
1077	1293
132,471	159,039

Contractor B

$$y = 125x$$

What is the difference in the price per square foot between contractor A and contractor B?



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Company A

Total Kilowatt-Hours	Total Cost (\$)
1379	1384
179.27	179.92

$$y = 0.13x$$

Company B

$$y = 0.11x$$

Find the total cost in dollars of buying 1,073 kilowatt hours of electricity from the cheapest company.

2) Two companies are selling sugar by the pound. The cost of sugar for Company A is represented in the table below, while the cost for Company B is represented by an equation, with y representing the total cost in dollars for x pounds of sugar.

Company A

Total Pounds	Total Cost (\$)
19	12
5.51	3.48

$$y = 0.29x$$

Company B

$$y = 0.23x$$

Find the total cost in dollars of buying 13 pounds of sugar from the more expensive company.

3) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with y representing the total price and x representing the square feet of the house.

Contractor A

Square Feet	Total Price (\$)
1077	1293
132,471	159,039

$$y = 123x$$

Contractor B

$$y = 125x$$

What is the difference in the price per square foot between contractor A and contractor B?

Answers1. **118.03**2. **3.77**3. **2**