Comparing Measurement with Tables and Equations

Name:

Solve each problem.

1) 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 ($)
15	14
3.30	3.08

Company B

y = 0.24x

Find the total cost in dollars of buying 15 pounds of sugar from the cheapest company.

2) Two junk yards offered money for scrap metal. Junk Yard A's price is represented in the table below. Junk Yard B's price is represented by an equation, with y representing the total price and x representing the pounds of metal recycled.

Junk Yard A

Pounds	Total Price ($)
1943	1315
343,911.00	232,755.00

Junk Yard B

y = 193.00x

Find the total price you'd get from recycling 1,370 pounds of metal at the more expensive junk yard.

3) 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 ($)
1011	1360
90.99	122.40

Company B

y = 0.08x

What is the difference in price per kilowatt hour between Company A and Company B?

Answers

1. _____
2. _____
3. _____

Comparing Measurement with Tables and Equations Name: **Answer Key**

Solve each problem.

1) 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 ($)
15	14
3.30	3.08

y = 0.22x

Company B

y = 0.24x

Find the total cost in dollars of buying 15 pounds of sugar from the cheapest company.

2) Two junk yards offered money for scrap metal. Junk Yard A's price is represented in the table below. Junk Yard B's price is represented by an equation, with y representing the total price and x representing the pounds of metal recycled.

Junk Yard A

Pounds	Total Price ($)
1943	1315
343,911.00	232,755.00

y = 177.00x

Junk Yard B

y = 193.00x

Find the total price you'd get from recycling 1,370 pounds of metal at the more expensive junk yard.

3) 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 ($)
1011	1360
90.99	122.40

y = 0.09x

Company B

y = 0.08x

What is the difference in price per kilowatt hour between Company A and Company B?

Answers

1. 3.3
2. 264,410
3. 0.01