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	17
3.00	3.40

Company B

y = 0.23x

Find the total cost in dollars of buying 14 pounds of sugar from the cheapest company.

2) 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 ($)
1258	1365
159,766	173,355

Contractor B

y = 122x

Find the total price you'd get from building a 1,945 sq/ft house from the more expensive contractor.

3) 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 ($)
1848	1414
303,072.00	231,896.00

Junk Yard B

y = 243.00x

What is the difference in the price per pound between junk yard A and junk yard 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	17
3.00	3.40

y = 0.20x

Company B

y = 0.23x

Find the total cost in dollars of buying 14 pounds of sugar from the cheapest company.

2) 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 ($)
1258	1365
159,766	173,355

y = 127x

Contractor B

y = 122x

Find the total price you'd get from building a 1,945 sq/ft house from the more expensive contractor.

3) 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 ($)
1848	1414
303,072.00	231,896.00

y = 164.00x

Junk Yard B

y = 243.00x

What is the difference in the price per pound between junk yard A and junk yard B?

Answers

1. 2.8
2. 247,015
3. 79