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 ($)
13	3.90
14	4.20

Company B

$y = 0.29x$

Find the total cost in dollars of buying 17 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 ($)
1384	2,200.56
1562	2,483.58

Junk Yard B

$y = 1.51x$

Find the total price you'd get from recycling 1,343 pounds of metal at the more expensive junk yard.

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 ($)
1929	231,480
1525	183,000

Contractor B

$y = 129x$

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

Math

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 ($)
13	3.90
14	4.20

y = 0.30x

Company B
y = 0.29x

Find the total cost in dollars of buying 17 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 ($)
1384	2,200.56
1562	2,483.58

y = 1.59x

Junk Yard B
y = 1.51x

Find the total price you'd get from recycling 1,343 pounds of metal at the more expensive junk yard.

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 ($)
1929	231,480
1525	183,000

y = 120x

Contractor B
y = 129x

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

1. **4.93**

2. **2,135.37**

3. **9**