Comparing Measurement with Tables and Equations
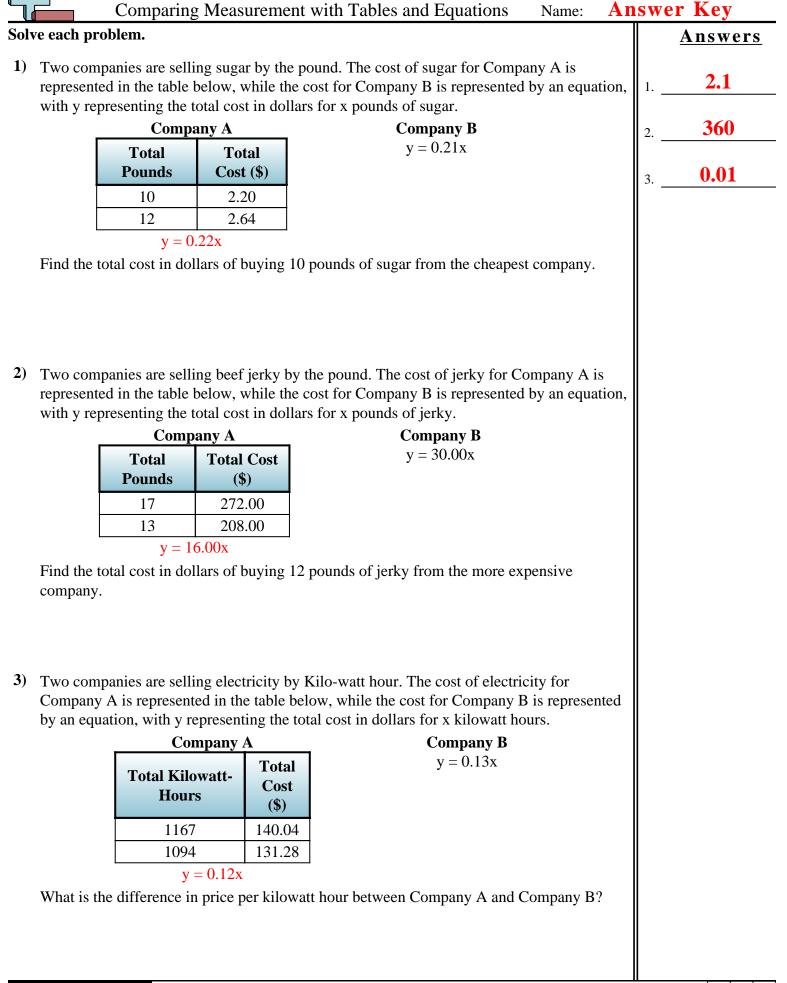
Name:

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 ($)**
10	2.20
12	2.64

Company B

$y = 0.21x$

Find the total cost in dollars of buying 10 pounds of sugar from the cheapest company.

2) Two companies are selling beef jerky by the pound. The cost of jerky 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 jerky.

Company A	
Total Pounds	**Total Cost ($)**
17	272.00
13	208.00

Company B

$y = 30.00x$

Find the total cost in dollars of buying 12 pounds of jerky from the more expensive company.

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 ($)**
1167	140.04
1094	131.28

Company B

$y = 0.13x$

What is the difference in price per kilowatt hour between Company A and Company 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 ($)**
10	2.20
12	2.64

Company B
y = 0.21x

y = 0.22x

Find the total cost in dollars of buying 10 pounds of sugar from the cheapest company.

2) Two companies are selling beef jerky by the pound. The cost of jerky 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 jerky.

Company A	
Total Pounds	**Total Cost ($)**
17	272.00
13	208.00

Company B
y = 30.00x

y = 16.00x

Find the total cost in dollars of buying 12 pounds of jerky from the more expensive company.

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 ($)**
1167	140.04
1094	131.28

Company B
y = 0.13x

y = 0.12x

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