Comparing Measurement with Tables and Equations

Name:

Solve each problem.

Answers

1. ________

2. ________

3. ________

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 ($)
1022	143.08
1041	145.74

Company B

$y = 0.14x$

Find the total cost in dollars of buying 1,224 kilowatt hours of electricity from the cheapest company.

2) Two companies are selling boxes of candy. The pieces of candy you get from Company A is represented in the table below. The pieces of candy you get per box from Company B is represented by an equation, with y representing the total number of pieces for x boxes.

Company A

Total Boxes	Total Pieces
13	286
20	440

Company B

$y = 30x$

Find the total number of pieces you'd get from buying 16 boxes of candy from the company with the most pieces per box.

3) 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 ($)
15	165.00
13	143.00

Company B

$y = 16.00x$

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

Comparing Measurement with Tables and Equations

Name: **Answer Key**

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 ($)
1022	143.08
1041	145.74

$y = 0.14x$

Company B

$y = 0.14x$

Find the total cost in dollars of buying 1,224 kilowatt hours of electricity from the cheapest company.

2) Two companies are selling boxes of candy. The pieces of candy you get from Company A is represented in the table below. The pieces of candy you get per box from Company B is represented by an equation, with y representing the total number of pieces for x boxes.

Company A

Total Boxes	Total Pieces
13	286
20	440

$y = 22x$

Company B

$y = 30x$

Find the total number of pieces you'd get from buying 16 boxes of candy from the company with the most pieces per box.

3) 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 ($)
15	165.00
13	143.00

$y = 11.00x$

Company B

$y = 16.00x$

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

Answers

1. **171.36**
2. **480**
3. **5**