Comparing Measurement with Tables and Equations
Name:

Solve each problem.

1) 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.

1. _____

Company A

Total Boxes	Total Pieces
15	435
19	551

2. _____

Company B

$y = 24x$

3. _____

Find the total number of pieces you'd get from buying 12 boxes of candy from the company with the fewest pieces per box.

2) 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 ($)
1042	156.30
1082	162.30

Company B

$y = 0.10x$

Find the total cost in dollars of buying 1,146 kilowatt hours of electricity from the more expensive company.

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 ($)
1586	182,390
1715	197,225

Contractor B

$y = 118x$

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 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.

1. **288**

Company A	
Total Boxes	**Total Pieces**
15	435
19	551

Company B
y = 24x

y = 29x

Find the total number of pieces you'd get from buying 12 boxes of candy from the company with the fewest pieces per box.

2. **171.9**

2) 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.

3. **3**

Company A	
Total Kilowatt-Hours	**Total Cost ($)**
1042	156.30
1082	162.30

Company B
y = 0.10x

y = 0.15x

Find the total cost in dollars of buying 1,146 kilowatt hours of electricity from the more expensive company.

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 ($)**
1586	182,390
1715	197,225

Contractor B
y = 118x

y = 115x

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