



Solve each problem.

Answers

- 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.

Company A

Total Boxes	Total Pieces
11	253
18	414

Company B

$$y = 20x$$

1. _____

2. _____

3. _____

Find the total number of pieces you'd get from buying 14 boxes of candy from the company with the fewest pieces per box.

- 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 (\$)
1024	1,812.48
1795	3,177.15

Junk Yard B

$$y = 2.49x$$

Find the total price you'd get from recycling 1,731 pounds of metal at the more expensive junk yard.

- 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 (\$)
1380	193.20
1161	162.54

Company B

$$y = 0.13x$$

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



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Company A

Total Boxes	Total Pieces
11	253
18	414

$$y = 23x$$

Company B

$$y = 20x$$

Find the total number of pieces you'd get from buying 14 boxes of candy from the company with the fewest pieces per box.

- 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 (\$)
1024	1,812.48
1795	3,177.15

$$y = 1.77x$$

Junk Yard B

$$y = 2.49x$$

Find the total price you'd get from recycling 1,731 pounds of metal at the more expensive junk yard.

- 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 (\$)
1380	193.20
1161	162.54

$$y = 0.14x$$

Company B

$$y = 0.13x$$

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

Answers1. **280**2. **4,310.19**3. **0.01**