



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?



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.

**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?

**Answers**1. **280**2. **4,310.19**3. **0.01**