



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
17	408
10	240

**Company B**

$$y = 29x$$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

Find the total number of pieces you'd get from buying 16 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 (\$)
1254	2,997.06
1394	3,331.66

**Junk Yard B**

$$y = 2.29x$$

Find the total price you'd get from recycling 1,350 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 (\$)
1119	145.47
1308	170.04

**Company B**

$$y = 0.11x$$

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
17	408
10	240

$$y = 24x$$

**Company B**

$$y = 29x$$

Find the total number of pieces you'd get from buying 16 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 (\$)
1254	2,997.06
1394	3,331.66

$$y = 2.39x$$

**Junk Yard B**

$$y = 2.29x$$

Find the total price you'd get from recycling 1,350 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 (\$)
1119	145.47
1308	170.04

$$y = 0.13x$$

**Company B**

$$y = 0.11x$$

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

**Answers**1. **384**2. **3,226.5**3. **0.02**