



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 |

Company B
 $y = 20x$

$y = 23x$

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
 $y = 2.49x$

$y = 1.77x$

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
 $y = 0.13x$

$y = 0.14x$

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