



Solve each problem.

**Answers**

- 1) Two companies are selling beef jerky by the pound. The cost of jerky 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  $x$  pounds of jerky.

**Company A**

Total Pounds	Total Cost (\$)
18	270.00
20	300.00

**Company B**

$$y = 14.00x$$

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

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

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

Find the total cost in dollars of buying 17 pounds of jerky from the cheapest company.

- 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 (\$)
1359	2,813.13
1274	2,637.18

**Junk Yard B**

$$y = 2.05x$$

Find the total price you'd get from recycling 1,815 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 (\$)
1282	141.02
1196	131.56

**Company B**

$$y = 0.09x$$

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



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**Company A**

Total Pounds	Total Cost (\$)
18	270.00
20	300.00

$$y = 15.00x$$

**Company B**

$$y = 14.00x$$

Find the total cost in dollars of buying 17 pounds of jerky from the cheapest company.

- 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 (\$)
1359	2,813.13
1274	2,637.18

$$y = 2.07x$$

**Junk Yard B**

$$y = 2.05x$$

Find the total price you'd get from recycling 1,815 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 (\$)
1282	141.02
1196	131.56

$$y = 0.11x$$

**Company B**

$$y = 0.09x$$

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

**Answers**1. 2382. 3,757.053. 0.02