



Solve each problem.

**Answers**

- 1) 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 (\$)
1266	113.94
1052	94.68

**Company B**

$$y = 0.10x$$

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

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

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

Find the total cost in dollars of buying 1,315 kilowatt hours of electricity from the cheapest company.

- 2) 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
20	500
13	325

**Company B**

$$y = 30x$$

Find the total number of pieces you'd get from buying 20 boxes of candy from the company with the most pieces per box.

- 3) 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 (\$)
20	220.00
16	176.00

**Company B**

$$y = 12.00x$$

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



Solve each problem.

- 1) 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 (\$)
1266	113.94
1052	94.68

$$y = 0.09x$$

**Company B**

$$y = 0.10x$$

Find the total cost in dollars of buying 1,315 kilowatt hours of electricity from the cheapest company.

- 2) 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
20	500
13	325

$$y = 25x$$

**Company B**

$$y = 30x$$

Find the total number of pieces you'd get from buying 20 boxes of candy from the company with the most pieces per box.

- 3) 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 (\$)
20	220.00
16	176.00

$$y = 11.00x$$

**Company B**

$$y = 12.00x$$

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

**Answers**1. **118.35**2. **600**3. **1**