



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          | 330          |
| 20          | 600          |

**Company B**

$$y = 27x$$

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

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

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

Find the total number of pieces you'd get from buying 13 boxes of candy from the company with the fewest pieces per box.

- 2) Two companies are selling sugar by the pound. The cost of sugar 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 sugar.

**Company A**

| Total Pounds | Total Cost (\$) |
|--------------|-----------------|
| 18           | 4.32            |
| 15           | 3.60            |

**Company B**

$$y = 0.30x$$

Find the total cost in dollars of buying 11 pounds of sugar from the more expensive company.

- 3) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1356        | 166,788          |
| 1069        | 131,487          |

**Contractor B**

$$y = 113x$$

What is the difference in the price per square foot between contractor A and contractor 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          | 330          |
| 20          | 600          |

$$y = 30x$$

**Company B**

$$y = 27x$$

Find the total number of pieces you'd get from buying 13 boxes of candy from the company with the fewest pieces per box.

- 2) Two companies are selling sugar by the pound. The cost of sugar 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 sugar.

**Company A**

| Total Pounds | Total Cost (\$) |
|--------------|-----------------|
| 18           | 4.32            |
| 15           | 3.60            |

$$y = 0.24x$$

**Company B**

$$y = 0.30x$$

Find the total cost in dollars of buying 11 pounds of sugar from the more expensive company.

- 3) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1356        | 166,788          |
| 1069        | 131,487          |

$$y = 123x$$

**Contractor B**

$$y = 113x$$

What is the difference in the price per square foot between contractor A and contractor B?

Answers

1. 351

2. 3.3

3. 10



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 (\$) |
|----------------------|-----------------|
| 1236                 | 98.88           |
| 1419                 | 113.52          |

**Company B**

$$y = 0.08x$$

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

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

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

Find the total cost in dollars of buying 1,018 kilowatt hours of electricity from the cheapest company.

- 2) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1993        | 229,195          |
| 1202        | 138,230          |

**Contractor B**

$$y = 118x$$

Find the total price you'd get from building a 1,168 sq/ft house from the more expensive contractor.

- 3) Two companies are selling sugar by the pound. The cost of sugar 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 sugar.

**Company A**

| Total Pounds | Total Cost (\$) |
|--------------|-----------------|
| 10           | 2.90            |
| 13           | 3.77            |

**Company B**

$$y = 0.20x$$

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 (\$) |
|----------------------|-----------------|
| 1236                 | 98.88           |
| 1419                 | 113.52          |

$y = 0.08x$

**Company B**

$y = 0.08x$

Find the total cost in dollars of buying 1,018 kilowatt hours of electricity from the cheapest company.

- 2) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1993        | 229,195          |
| 1202        | 138,230          |

$y = 115x$

**Contractor B**

$y = 118x$

Find the total price you'd get from building a 1,168 sq/ft house from the more expensive contractor.

- 3) Two companies are selling sugar by the pound. The cost of sugar 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 sugar.

**Company A**

| Total Pounds | Total Cost (\$) |
|--------------|-----------------|
| 10           | 2.90            |
| 13           | 3.77            |

$y = 0.29x$

**Company B**

$y = 0.20x$

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

Answers

1. 81.44

2. 137,824

3. 0.09



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 (\$) |
|----------------------|-----------------|
| 1060                 | 159.00          |
| 1499                 | 224.85          |

**Company B**

$$y = 0.15x$$

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

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

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

Find the total cost in dollars of buying 1,346 kilowatt hours of electricity from the cheapest company.

- 2) 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 (\$) |
|--------------|-----------------|
| 10           | 100.00          |
| 14           | 140.00          |

**Company B**

$$y = 28.00x$$

Find the total cost in dollars of buying 15 pounds of jerky from the more expensive company.

- 3) 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 (\$) |
|--------|------------------|
| 1602   | 3,107.88         |
| 1805   | 3,501.70         |

**Junk Yard B**

$$y = 1.80x$$

What is the difference in the price per pound between junk yard A and junk yard 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 (\$) |
|----------------------|-----------------|
| 1060                 | 159.00          |
| 1499                 | 224.85          |

**Company B**

$$y = 0.15x$$

$$y = 0.15x$$

Find the total cost in dollars of buying 1,346 kilowatt hours of electricity from the cheapest company.

- 2) 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 (\$) |
|--------------|-----------------|
| 10           | 100.00          |
| 14           | 140.00          |

**Company B**

$$y = 28.00x$$

$$y = 10.00x$$

Find the total cost in dollars of buying 15 pounds of jerky from the more expensive company.

- 3) 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 (\$) |
|--------|------------------|
| 1602   | 3,107.88         |
| 1805   | 3,501.70         |

**Junk Yard B**

$$y = 1.80x$$

$$y = 1.94x$$

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

Answers

1. 201.9

2. 420

3. 0.14



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?



Solve each problem.

- 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          |

$y = 15.00x$

**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. 238

2. 3,757.05

3. 0.02





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 (\$) |
|----------------------|-----------------|
| 1315                 | 105.20          |
| 1304                 | 104.32          |

**Company B**

$$y = 0.08x$$

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

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

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

Find the total cost in dollars of buying 1,254 kilowatt hours of electricity from the cheapest company.

- 2) 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 (\$) |
|--------------|-----------------|
| 11           | 286.00          |
| 14           | 364.00          |

**Company B**

$$y = 30.00x$$

Find the total cost in dollars of buying 11 pounds of jerky from the more expensive company.

- 3) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1869        | 214,935          |
| 1423        | 163,645          |

**Contractor B**

$$y = 116x$$

What is the difference in the price per square foot between contractor A and contractor 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 (\$) |
|----------------------|-----------------|
| 1315                 | 105.20          |
| 1304                 | 104.32          |

$y = 0.08x$

**Company B**

$y = 0.08x$

Find the total cost in dollars of buying 1,254 kilowatt hours of electricity from the cheapest company.

- 2) 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 (\$) |
|--------------|-----------------|
| 11           | 286.00          |
| 14           | 364.00          |

$y = 26.00x$

**Company B**

$y = 30.00x$

Find the total cost in dollars of buying 11 pounds of jerky from the more expensive company.

- 3) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1869        | 214,935          |
| 1423        | 163,645          |

$y = 115x$

**Contractor B**

$y = 116x$

What is the difference in the price per square foot between contractor A and contractor B?

Answers

1. 100.32

2. 330

3. 1



Solve each problem.

**Answers**

- 1) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1978        | 225,492          |
| 1926        | 219,564          |

**Contractor B**

$$y = 115x$$

1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_

Find the total price you'd get from building a 1,488 sq/ft house from the cheapest contractor.

- 2) 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 (\$) |
|----------------------|-----------------|
| 1264                 | 126.40          |
| 1417                 | 141.70          |

**Company B**

$$y = 0.14x$$

Find the total cost in dollars of buying 1,248 kilowatt hours of electricity from the more expensive company.

- 3) 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 (\$) |
|--------|------------------|
| 1406   | 2,713.58         |
| 1462   | 2,821.66         |

**Junk Yard B**

$$y = 1.90x$$

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



Solve each problem.

- 1) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

| Contractor A |                  |
|--------------|------------------|
| Square Feet  | Total Price (\$) |
| 1978         | 225,492          |
| 1926         | 219,564          |

Contractor B

$$y = 115x$$

$$y = 114x$$

Find the total price you'd get from building a 1,488 sq/ft house from the cheapest contractor.

- 2) 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 (\$) |
| 1264                 | 126.40          |
| 1417                 | 141.70          |

Company B

$$y = 0.14x$$

$$y = 0.10x$$

Find the total cost in dollars of buying 1,248 kilowatt hours of electricity from the more expensive company.

- 3) 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 (\$) |
| 1406        | 2,713.58         |
| 1462        | 2,821.66         |

Junk Yard B

$$y = 1.90x$$

$$y = 1.93x$$

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

Answers

1. 169,632

2. 174.72

3. 0.03



Solve each problem.

Answers

- 1) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1534        | 173,342          |
| 1428        | 161,364          |

**Contractor B**

$$y = 123x$$

Find the total price you'd get from building a 1,351 sq/ft house from the cheapest contractor.

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

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

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

- 2) Two companies are selling sugar by the pound. The cost of sugar 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 sugar.

**Company A**

| Total Pounds | Total Cost (\$) |
|--------------|-----------------|
| 20           | 5.40            |
| 11           | 2.97            |

**Company B**

$$y = 0.22x$$

Find the total cost in dollars of buying 17 pounds of sugar from the more expensive company.

- 3) 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 |
|-------------|--------------|
| 10          | 280          |
| 19          | 532          |

**Company B**

$$y = 27x$$

What is the difference in the number of pieces per box between Company A and Company B?



Solve each problem.

- 1) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1534        | 173,342          |
| 1428        | 161,364          |

$$y = 113x$$

**Contractor B**

$$y = 123x$$

Find the total price you'd get from building a 1,351 sq/ft house from the cheapest contractor.

- 2) Two companies are selling sugar by the pound. The cost of sugar 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 sugar.

**Company A**

| Total Pounds | Total Cost (\$) |
|--------------|-----------------|
| 20           | 5.40            |
| 11           | 2.97            |

$$y = 0.27x$$

**Company B**

$$y = 0.22x$$

Find the total cost in dollars of buying 17 pounds of sugar from the more expensive company.

- 3) 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 |
|-------------|--------------|
| 10          | 280          |
| 19          | 532          |

$$y = 28x$$

**Company B**

$$y = 27x$$

What is the difference in the number of pieces per box between Company A and Company B?

**Answers**1. 152,6632. 4.593. 1



Solve each problem.

- 1) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1315        | 144,650          |
| 1795        | 197,450          |

**Contractor B**

$$y = 126x$$

Find the total price you'd get from building a 1,821 sq/ft house from the cheapest contractor.

- 2) Two companies are selling sugar by the pound. The cost of sugar 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 sugar.

**Company A**

| Total Pounds | Total Cost (\$) |
|--------------|-----------------|
| 14           | 4.06            |
| 12           | 3.48            |

**Company B**

$$y = 0.29x$$

Find the total cost in dollars of buying 19 pounds of sugar from the more expensive company.

- 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 (\$) |
|----------------------|-----------------|
| 1280                 | 128.00          |
| 1312                 | 131.20          |

**Company B**

$$y = 0.14x$$

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

**Answers**

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

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

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



Solve each problem.

- 1) Two contractors are bidding on building a house. Contractor A's price is represented in the table below. Contractor B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the square feet of the house.

**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1315        | 144,650          |
| 1795        | 197,450          |

$$y = 110x$$

**Contractor B**

$$y = 126x$$

Find the total price you'd get from building a 1,821 sq/ft house from the cheapest contractor.

- 2) Two companies are selling sugar by the pound. The cost of sugar 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 sugar.

**Company A**

| Total Pounds | Total Cost (\$) |
|--------------|-----------------|
| 14           | 4.06            |
| 12           | 3.48            |

$$y = 0.29x$$

**Company B**

$$y = 0.29x$$

Find the total cost in dollars of buying 19 pounds of sugar from the more expensive company.

- 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 (\$) |
|----------------------|-----------------|
| 1280                 | 128.00          |
| 1312                 | 131.20          |

$$y = 0.10x$$

**Company B**

$$y = 0.14x$$

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

**Answers**1. 200,3102. 5.513. 0.04





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



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**