



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?



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- 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.

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**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.

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**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. 3512. 3.33. 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.

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Total Kilowatt-Hours	Total Cost (\$)
1236	98.88
1419	113.52

$y = 0.08x$

**Company B**

$y = 0.08x$

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**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

$$y = 0.15x$$

**Company B**

$$y = 0.15x$$

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

$$y = 10.00x$$

**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

$$y = 1.94x$$

**Junk Yard B**

$$y = 1.80x$$

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

**Answers**1. 201.92. 4203. 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. 2382. 3,757.053. 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. 100.322. 3303. 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.

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**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?

Answers1. 169,6322. 174.723. 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**

$$y = 123x$$

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

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

**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.

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**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.

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**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.

**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 (\$)
1315	144,650
1795	197,450

**Contractor B**

$$y = 126x$$

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

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?



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**  
 $y = 126x$

$y = 110x$

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.

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

**Company B**  
 $y = 0.29x$

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

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**Company A**

Total Kilowatt-Hours	Total Cost (\$)
1280	128.00
1312	131.20

**Company B**  
 $y = 0.14x$

$y = 0.10x$

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?

Answers1. 2802. 4,310.193. 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**