



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?



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**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. 81.442. 137,8243. 0.09