



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. \_\_\_\_\_



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- 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.

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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?

Answers1. 200,3102. 5.513. 0.04