



Solve each problem.

Answers

- 1) 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           | 4.20            |
| 19           | 3.99            |

**Company B**  
 $y = 0.24x$

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

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

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

Find the total cost in dollars of buying 20 pounds of sugar 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 (\$) |
|-------------|------------------|
| 1556        | 172,716          |
| 1029        | 114,219          |

**Contractor B**  
 $y = 116x$

Find the total price you'd get from building a 1,010 sq/ft house from the more expensive contractor.

- 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 (\$) |
|--------------|-----------------|
| 15           | 270.00          |
| 10           | 180.00          |

**Company B**  
 $y = 12.00x$

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



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**Company A**

| Total Pounds | Total Cost (\$) |
|--------------|-----------------|
| 20           | 4.20            |
| 19           | 3.99            |

**Company B**  
 $y = 0.24x$

$y = 0.21x$

Find the total cost in dollars of buying 20 pounds of sugar from the cheapest company.

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**Contractor A**

| Square Feet | Total Price (\$) |
|-------------|------------------|
| 1556        | 172,716          |
| 1029        | 114,219          |

**Contractor B**  
 $y = 116x$

$y = 111x$

Find the total price you'd get from building a 1,010 sq/ft house from the more expensive contractor.

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**Company A**

| Total Pounds | Total Cost (\$) |
|--------------|-----------------|
| 15           | 270.00          |
| 10           | 180.00          |

**Company B**  
 $y = 12.00x$

$y = 18.00x$

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

Answers

1. 4.2

2. 117,160

3. 6