



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?



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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?

Answers1. **152,663**2. **4.59**3. **1**