



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.

- 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            |

$$y = 0.27x$$

**Company B**

$$y = 0.22x$$

Find the total cost in dollars of buying 17 pounds of sugar from the more expensive company.

- 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          |

$$y = 28x$$

**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