



Solve each problem.

- 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 (\$)
18	5.22
19	5.51

**Company B**

$$y = 0.22x$$

Find the total cost in dollars of buying 13 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 (\$)
1980	227,700
1505	173,075

**Contractor B**

$$y = 122x$$

Find the total price you'd get from building a 1,793 sq/ft house from the more expensive contractor.

- 3) Two junk yards offered money for scrap metal. Junk Yard A's price is represented in the table below. Junk Yard B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the pounds of metal recycled.

**Junk Yard A**

Pounds	Total Price (\$)
1544	3,674.72
1475	3,510.50

**Junk Yard B**

$$y = 1.76x$$

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

**Answers**

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

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

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



Solve each problem.

- 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 (\$)
18	5.22
19	5.51

$$y = 0.29x$$

**Company B**

$$y = 0.22x$$

Find the total cost in dollars of buying 13 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 (\$)
1980	227,700
1505	173,075

$$y = 115x$$

**Contractor B**

$$y = 122x$$

Find the total price you'd get from building a 1,793 sq/ft house from the more expensive contractor.

- 3) Two junk yards offered money for scrap metal. Junk Yard A's price is represented in the table below. Junk Yard B's price is represented by an equation, with  $y$  representing the total price and  $x$  representing the pounds of metal recycled.

**Junk Yard A**

Pounds	Total Price (\$)
1544	3,674.72
1475	3,510.50

$$y = 2.38x$$

**Junk Yard B**

$$y = 1.76x$$

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

**Answers**1. **2.86**2. **218,746**3. **0.62**