

**Solve each problem.**

- 1) 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 (\$)
1542	3,099.42
1823	3,664.23

Junk Yard B

$$y = 2.19x$$

Find the total price you'd get from recycling 1578 pounds of metal at the cheapest junk yard.

- 2) 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 (\$)
1056	137.28
1243	161.59

Company B

$$y = 0.14x$$

Find the total cost in dollars of buying 1218 kilowatt hours of electricity from the more expensive company.

- 3) 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 (\$)
1223	150,429
1902	233,946

Contractor B

$$y = 125x$$

What is the difference in the price per square foot between contractor A and contractor B?

Answers

1. _____
2. _____
3. _____

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1823	3,664.23

$$y = 2.01x$$

Junk Yard B

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Contractor A

Square Feet	Total Price (\$)
1223	150,429
1902	233,946

$$y = 123x$$

Contractor B

$$y = 125x$$

What is the difference in the price per square foot between contractor A and contractor B?

Answers1. **3171.78**2. **170.52**3. **2**