



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 (\$)
1978	225,492
1926	219,564

**Contractor B**

$$y = 115x$$

1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_

Find the total price you'd get from building a 1,488 sq/ft house from the cheapest contractor.

- 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 (\$)
1264	126.40
1417	141.70

**Company B**

$$y = 0.14x$$

Find the total cost in dollars of buying 1,248 kilowatt hours of electricity from the more expensive company.

- 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 (\$)
1406	2,713.58
1462	2,821.66

**Junk Yard B**

$$y = 1.90x$$

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



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Contractor A	
Square Feet	Total Price (\$)
1978	225,492
1926	219,564

Contractor B

$$y = 115x$$

$$y = 114x$$

Find the total price you'd get from building a 1,488 sq/ft house from the cheapest contractor.

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Company A	
Total Kilowatt-Hours	Total Cost (\$)
1264	126.40
1417	141.70

Company B

$$y = 0.14x$$

$$y = 0.10x$$

Find the total cost in dollars of buying 1,248 kilowatt hours of electricity from the more expensive company.

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Junk Yard A	
Pounds	Total Price (\$)
1406	2,713.58
1462	2,821.66

Junk Yard B

$$y = 1.90x$$

$$y = 1.93x$$

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

Answers1. 169,6322. 174.723. 0.03