

Name: ..... Class: .....

Multiplying Decimals by Whole Numbers Word Problems

a.

Jake and his brother Clayton want to give their parents a gift valued at \$65,227.06 for their 49th wedding anniversary. Jake has saved \$7,195.39 while Clayton has saved six times as much as Clayton.

To the nearest cent, how much has Clayton save so far?

b.

A groceries' store orders 45 bags of irish potatoes.

If each bag weights 281.366 grams, To the nearest tenth, what is the total weight of all the bags in kilograms?

c.

The temperature this afternoon is thrice as hot as yesterday afternoon.

If the temperature of yesterday afternoon was  $7.36^{\circ}\text{F}$ , what was the temperature this afternoon?

d.

The thickness of each sheet of an A3 paper is about 0.096 inches.

What is the thickness of a ream of 400 A3 sheets?

e.

Killian bought 8 gallons of oil at \$19.44 per gallon.

To the nearest cent, how much money did he spend in all?

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a. Amount of money Jake has saved = \$7,195.39  
 Amount of money Clayton has saved = 6 times the amount of money Jake has saved.  
 Therefore, amount of money Clayton saved =  
 amount of money Jake has saved × amount of money Clayton has saved compared to Jake

$$7195.39 \times 6 = ?$$

Let's multiply 7,195.39 × 6  
 How do you multiply decimals numbers?  
 First multiply numbers as whole numbers

$$\begin{array}{r} 719539 \\ \times \quad \quad \quad 6 \\ \hline 4,317,234 \end{array}$$

Then count numbers of digits after dot and move dot to the result at the right position  
 7,195.39 × 6 = 43172.34

Clayton has saved \$43,172.34.

b. The total weight of all the bags in kilograms is, 12.66147 kilograms.

c. The temperature this afternoon is 14.72°F.

d. The thickness of a ream of 400 A3 sheets is 38.400 inches.

e. He spent \$155.52 in all.