


NAME: \_\_\_\_\_

Points Possible: 70

**Short answer (38 points)** *each blank is worth 2 points*

1. Name the three parts of the fire triangle.  \_\_\_\_\_
2. Olathe has \_\_\_\_\_ (number of) fire stations.
3. A firefighter usually uses \_\_\_\_\_ to remove the heat side of the fire triangle.
4. In a fire, \_\_\_\_\_ and \_\_\_\_\_ hurt people more often than the flames.
5. Most Olathe home fires happen in the \_\_\_\_\_ (area of the home).
6. The time most Olathe home fires happen is between \_\_\_\_\_ and \_\_\_\_\_.
7. What type of call does the Olathe Fire Department run most often? \_\_\_\_\_ (abbreviation).
8. The **very best** thing for grown-ups to put on a grease fire is a \_\_\_\_\_.
9. Olathe has at least \_\_\_\_\_ firefighters on duty every day.
10. In a \_\_\_\_\_ degree burn, the skin will be pink to cherry red with blisters.
11. Hot water that is only \_\_\_\_\_ degrees Fahrenheit can cause a third degree burn in one second.
12. Yes or no, does water need to be boiling to cause a third degree burn? \_\_\_\_\_
13. When you perform stop, drop, and roll, what part of the fire triangle are you removing? \_\_\_\_\_
14. How many total calls did the Olathe Fire Department run in 2016? \_\_\_\_\_
15. How many more calls did the Olathe Fire Department run in 2016 than in 2010? \_\_\_\_\_  
**(show your math work for 2 more points)**

## True or False (10 points) *circle the correct answer*

1. More people die in the United States each year in fires, than in all natural disasters combined. **T or F**
2. A fire needs only a lighter, a heat source, and fuel to burn. **T or F**
3. A wooden desk is a fuel. **T or F**
4. The **best** thing to put on a burn is ice. **T or F**
5. The most common areas where Olathe home fires happen are the kitchen, deck/patio/porch, and the attic. **T or F**

## Do the math (10 points) *each blank is worth 2 points*

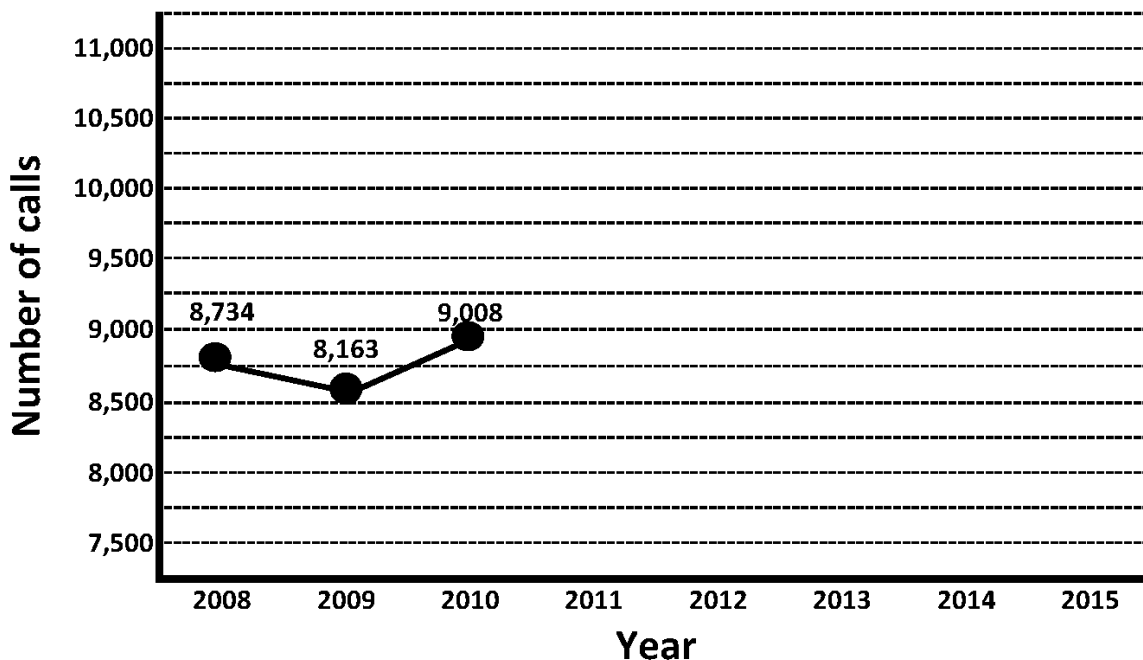
1. An Olathe ladder truck (Q56) carries; 1,000 feet of 4 inch hose, and 400 feet of 2 ½ inch hose in the back, 200 feet of 2 ½ inch hose, and 400 feet of 1 ¾ inch hose on the side, 100 feet of 1 ¾ inch hose in the front bumper, and 100 feet of 1 ¾ inch hose in a high-rise pack.  
How many total feet of hose does this truck carry?  
*(Show your math work for 2 more points)*

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2. How many tires does 6 quints with 6 tires each have? \_\_\_\_\_ total tires
3. How many firefighters does 8 fire trucks with 3 firefighters each have? \_\_\_\_\_ total firefighters
4. How many hours long is one shift (firefighter work schedule)? \_\_\_\_\_ hours

## Graph it (10 points)

Make a **line graph** showing the total number of calls the Olathe Fire Department ran from 2008 through 2015. **Draw a point** in the correct place on the graph for each year (2011 through 2015), then **connect the points** with a line. **Write the number of calls** for each year by the point you drew for that year. 2008 through 2010 have already been done for you as an example.



One point for each graph point drawn in the correct place.

One point for each correct number written in the correct place.