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|  | **Problem 1** | Problem 2 | Gridded Response |
| **Monday** | Tiffany wants to spend at most $30 for a bouquet of roses and carnations. Carnations are $3 each and roses are $5 each. She wants her bouquet to have at least 6 flowers. Write a system of inequalities to represent this situation.  | A projectile is launched at a speed of 40m per second from a 49m tall platform. The equation for the objects height at S at time *t* seconds is S(t) = -4.9t2 + 40t + 49, where S is in meters. How long will it take for the projectile to reach its maximum height? Round your answer to the nearest tenth of a second if necessary.  | ***Problem 2***Grade 6 Math Grid.png |
| **Tuesday** | Given the data in the table below, which type of model would best describe the data? Choose from linear, quadratic or exponential.  | Using the model and information from problem #1, predict the temperature of the oven after 1 hour. | ***Problem 1***Grade 6 Math Grid.png |
| **Wednesday** | Fia and Wesley are saving to buy a car. Fia has $750 saved and is adding $30 a week to the account. Wesley has $1200 saved and is adding $20 a week. How many weeks until they both have the same amount saved? | A system of inequalities has been graded on the plane below. Use a highlighter to indicate the answers to the system. https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcSmiEZpQvSUnFPPr6jNMc3qB37m6448cfuws9SMgfE43aVnVpAi | ***Problem 1***Grade 6 Math Grid.png |
| **Thursday** | A suryvey of 4,500 people was given. The results of a survey of favorite colors are shown below in the relative frequency table. How many females stated that red was their favorite? | A line segment has endpoints B(-6, 4) and Z(-8, 6). The point M is the midpoint of line$ \overline{BZ}$. What is the equation of the line perpendicular to $\overline{BZ}$ passing through M? | ***Problem 2***  |
| **Friday** | The length of each side of a square tissue box is represented by the expression 5w2. The volume of the box in cubic inches is (5w2)3. Write the volume of the box in simplified form.  | A NC sweet potato farmer knows that the number of sweet potato harvested varies directly with the number of plants grown. Last year the farmer harvested 189 potatoes from 9 plants. If he grows 14 plants this year, how many potatoes can he expect to have? | ***Problem 2*** |

*Questions adapted from Score21 and SchoolNet* 