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|  | **Problem 1** | Problem 2 | Gridded Response |
| **Monday** | Erin’s car breaks down on a highway. Erin estimates that she is 20 to 30 miles from the nearest car repair shop. She calls a car shop that charges a fee of $80 plus $2 per mile to tow a car. If Erin uses this company, what is the range of possible values for the amount of money, *m*, she will have to pay? | Maureen used a quadratic function to solve a problem. The factored form of the function is shown below. What is the positive solution to the problem?  (4x + 3)(6x – 3) = 0 | ***Problem 2***  Grade 6 Math Grid.png |
| **Tuesday** | Mary is enrolled in a communications class that is practicing public speaking. Each week she has to give a longer speech than the week before. The length of Mary’s speeches each week is recorded in the table. If the trend continues, what week will she give a 12 minute speech?   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Week # | 3 | 4 | 5 | 6 | | Length (seconds) | 150 | 180 | 210 | 240 | | What is written in radical form? | ***Problem 1***  Grade 6 Math Grid.png |
| **Wednesday** | The cost of renting a van for one day includes a flat rental fee plus a charge for each mile the van is driven while it is rented. A van that is driven 107 miles cost $97.15. A van that is driven 127 miles costs $106.15. What is the flat rental fee? | An in ground farm sprinkler sprays water with an initial velocity of 65 feet per second. How long will the water be in the air before hitting the ground? Use h = -16t2 +vt + s and round your answer to the nearest second if necessary. | ***Problem 1***  Grade 6 Math Grid.png |
| **Thursday** | What would be the best estimate of the number of debates you could win if you practiced 6 hours a week? | A ball is dropped from a height of 10 feet. On each bounce, the ball reaches 80% of the height of the previous bounce. After what bounce will the ball rise to an approximate height of 1 ft.? Round your answer to the nearest whole number if necessary. | ***Problem 2*** |
| **Friday** | Write in exponential form. | If you graphed the quadratic function in the box below, what would be the value of the y-intercept?  f(x) = x2 – 6x + 5 | ***Problem 2*** |

*Questions adapted from Score21 and SchoolNet* 