

Math Forum - Problem of the Week

Homework-Free Fridays *

[Mentor Group at Work](#)

Every Friday the students in Ms. Lania's class who have completed their homework all week long get to play Homework-Free Friday. Ms. Lania has three 10-sided dice, each with the digits 0 through 9. Each eligible student rolls all three dice. If the sum of the three dice is equal to the day's date, the student is excused from homework for the weekend.



On one Friday, the 15th of the month, Donna rolled an 8 on the yellow die first. How many different ways can the blue and red dice land to win her a weekend free of homework?

Show your work.

Extra: For her first roll Donna was hoping for the number that would give her the greatest chance of a weekend without homework on the 15th. What number was Donna hoping for?

Explain your answer.

Super Extra: Make up your own problem about this story and solve it, showing your work. We will feature the most interesting examples in our Highlighted Solutions.

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