



FROM THE PROFESSOR'S FILES . . .

I am proud to announce that my daughter has given birth to a healthy baby girl! Ashley and her husband, Aaron, have named their adorable little child Cleo. My wife, Elaine, had gone to stay with Ashley for a few weeks prior to her delivery, so upon news of the birth, I drove to Ashley's home with my son Jackie, his wife, Yolanda, and their daughter, Alexis. On the lengthy car ride, we played a game involving the license plates of other vehicles—the first person to spot a car from a state that we hadn't seen before that day would earn a number of points equal to the total of the three digits on that car's license plate. During the last leg of the trip, 12 such license plates were discovered, each of which had a different three-letter combination (CIV, DUB, EOJ, EOZ, EUS, GEM, LAH, NYW, PIK, XET, YAF, or YOR). No digit appeared more than once on any license plate, and no two license plates had the same three digits. I was so anxious to meet my new grandchild that playing this game was the only way Jackie could keep me quiet! From the information provided, can you determine each of the three digits (1 through 9) that appeared with the three letters on each license plate, as well as the person (Alexis, Jackie, Reuben, or Yolanda) who spotted each license plate?

1. Each of the nine digits appeared on exactly four license plates. None of the license plates contained three even digits. No pair of consecutive numbers appeared in adjacent positions on more than one license plate. No license plate was worth less than 10 points or more than 19 points.
2. The digit 9 was neither the first digit nor the third digit on any license plate. The digit 8 wasn't the second digit on any license plate. No two plates had exactly two of the same digits in the same positions. The digits 3 and 4 didn't appear in consecutive positions on any license plate.
3. Three license plates that each earned its spotter exactly 17 points are the one that read NYW (which contained the digit 9), the one that read XET (which contained the digit 3), and the one that read GEM. One license plate had three consecutive digits in order from highest to lowest.
4. Yolanda spotted the only license plate worth exactly 10 points. The only license plate Jackie spotted (which earned him exactly 16 points) had 1 as its second digit. The first digit on the plate with the letters CIV wasn't 7. The digit 3 wasn't the first digit on any license plate.
5. The license plate that read 195 (which was spotted by Alexis) had exactly two letters in common with another license plate that had the digit 1 as its first digit. Yolanda spotted exactly three license plates.
6. The license plates that read DUB and EUS (both of which were spotted by Yolanda) had the same first digit and the same three-digit total. Exactly two license plates found by Yolanda had the same first letter. The license plate that read DUB didn't feature the digit 7.
7. The only two license plates spotted by Reuben had the same first letter; one of these license plates was worth exactly 8 more points than the other. The third digit on the higher-scoring license plate found by Reuben (which didn't feature the letter A) is the same as the second digit on the lower-scoring license plate Reuben spotted.

LOGIC PROBLEM SOLUTION

(Clue numbers in parentheses)

Letters are CIV, DUB, EOJ, EOZ, EUS, GEM, LAH, NYW, PIK, XET, YAF, and YOR, and digits are 1-9 (intro.). Pts. is total of plate's 3 digits (intro.). Jackie is 1 plate (4), Yolanda is 3 plates (5), and Reuben is 2 plates (7), so Alexis is 6 plates [only possible to total 12 plates]. 195 [Alexis (5)] and another plate with 1st digit 1 (5) are EOJ and EOZ, in some order [only possible (5)]. Yolanda [3 plates (5)] is DUB and EUS (6), so is 1 of EOJ and EOZ [only possible (6)], so EOJ and EOZ are Alexis and Yolanda, in some order (above). Reuben [2 plates (7)] don't include EOJ or EOZ [Alexis and Yolanda, in some order (above)]; he's YAF and YOR [only possible (7)], and YAF isn't higher Reuben (7), so is lower Reuben, and YOR is higher Reuben [only possible]. XET [17 pts. (3)] isn't Yolanda [Yolanda's 3 plates are DUB, EUS, and 1 of EOJ and EOZ (above)] or Jackie [Jackie's 1 plate is 16 pts. (4)]; it's Alexis [only left with plates unplaced (above)], so Alexis isn't EOJ (9), so is EOZ, and Yolanda is EOJ (above). CIV isn't Alexis [XET is Alexis] (9); it's Jackie [only left with plate unplaced (above)]. GEM, LAH, NYW, and PIK are Alexis [only left with plates unplaced (above)]. 195 [Alexis] is EOZ (5, above). CIV [Jackie [1 plate (4)], so 16 pts. and 2nd digit 1 (4)] isn't 619, 916 (2), or 718 (4); it's 817 [only possible to total 16 pts. (above, intro.)]. Yolanda with 10 pts. (4) isn't DUB or EUS [same pts. (6)] (4); it's EOJ [only left for Yolanda]. Total for YAF [lower Reuben (above)] isn't 9 or less, 12 or more [total for YOR [higher Reuben (above)] would be at least 20 pts. (7)] (1), or 10 pts. [Yolanda is only plate worth 10 pts. (4)]; YAF is 11 pts., so YOR [higher Reuben (above)] is 19 pts. (7). Plate with 3 consecutive digits in order from highest to lowest (3) isn't 876 [21 total [8 + 7 + 6 = 21]] (1), 432, 543, 987 (2), 321 (4), or 654 [the 4 plates with digit 5 (1) are 2 with 1st digit 5 and 2 with 3rd digit 5 (8)]; it's 765. 765 [18 pts. [7 + 6 + 5 = 18]] (above) isn't EOJ [10 pts. (above)], YAF [11 pts. (above)], YOR [19 pts. (above)], PIK [one plate would be 20 pts. (8)] (1), GEM [17 pts. (3)], NYW [17 pts. (3)], XET [17 pts. (3)], DUB, or EUS [DUB would be 1st digit 7 (6)] (6); it's LAH. 237 [12 pts. [2 + 3 + 7 = 12]] (9) isn't EOJ [10 pts. (above)], YAF [11 pts. (above)], YOR [19 pts. (above)], GEM [17 pts. (3)], NYW [17 pts. (3)], XET [17 pts. (3)], DUB (6), or EUS [DUB would be 12 pts. (6)] (9); it's PIK, so only plate with 3rd digit 3 is 14 pts. (8). Plate with 3rd digit 3 and 14 pts. (above) isn't CIV [817], EOZ [195], LAH [765], PIK [237], EOJ [10 pts. (above)], YAF [11 pts. (above)], YOR [19 pts. (above)], GEM [17 pts. (3)], NYW [17 pts. (3)], or XET [17 pts. (3)]; it's DUB or EUS, so DUB and EUS are both 14 pts. (6). Plate with 3rd digit 3 and 14 pts. [DUB or EUS (above)] (above) isn't 563, 653 [LAH 765] (1), 743, 923 (2), or 293 [other of DUB and EUS [both 14 pts. (above)] would be 1st digit 2 (6), but couldn't be 293 (intro.), 248, 284 (1), 239 (2), 275, or 257 [the 4 plates with digit 5 (1) are EOZ 195, LAH 765, and 2 with 1st digit 5 (8)], so couldn't be placed (above, intro.)]; it's 473 [only possible to total 14 pts. (above, intro.)], so isn't DUB (6), so is EUS (above), so DUB is 1st digit 4 (6). DUB [14 pts., 1st digit 4 (above)] isn't 428, 482 (1), 419 (2), 437, or 473 (6); it's 491 [only possible to total 14 pts. (above, intro.)]. EOJ [10 pts., 1st digit 1 (above)] isn't 127, 172 [the 4 plates with digit 7 (1) are CIV 817, EUS 473, LAH 765, and PIK 237], 163 [EUS 473] (8), 145, or 154 [the 4 plates with digit 5 (1) are EOZ 195, LAH 765, and 2 plates with 1st digit 5 (8)]; it's 136 [only possible to total 10 pts. (above, intro.)]. XET [17 pts., digit 3 (3)] isn't 1st digit 3 (4) or 3rd digit 3 [EUS 473] (8); it's 2nd digit 3, and isn't 539, 935, or 836 [EOJ 136] (2), so is 638 [only possible to total 17 pts. (above, intro.)]. 2 plates with 1st digit 5 (8) don't include YOR [19 pts. (above), but couldn't be 568 [LAH 765] (1) or 586 (2), so couldn't be placed (above, intro.)] or NYW [17 pts., digit 9 (3), but couldn't be 539 (2) or 593 [EUS 473] (8), so couldn't be placed (above, intro.)]; they're GEM and YAF [only left with nos. unplaced]. GEM [1st digit 5 (above), 17 pts. (3)] isn't 539, 584 (2), or 593 [EUS 473] (8); it's 548 [only possible to total 17 pts. (above, intro.)]. YAF [lower Reuben, 11 pts., 1st digit 5 (above)] isn't 542 [GEM 548] (2); it's 524 [only possible to total 11 pts. (above, intro.)], so YOR [higher Reuben, 19 pts. (above)] is 3rd digit 2 (7), and isn't 982 (2), so is 892 [only possible to total 19 pts. (above, intro.)]. 4th plate with digits 2 and 6 (1) is NYW [only left with digits unplaced, digit 9 (3)], and isn't 1st digit or 3rd digit 9 (2), so is 2nd digit 9, and isn't 692 [YOR 892] (2), so is 296.

In summary:

CIV 817, Jackie; DUB 491, Yolanda; EOJ 136, Yolanda; EOZ 195, Alexis; EUS 473, Yolanda; GEM 548, Alexis; LAH 765, Alexis; NYW 296, Alexis; PIK 237, Alexis; XET 638, Alexis; YAF 524, Reuben; YOR 892, Reuben.

[PROFESSOR'S FILES PACKET • PennyDellPuzzles.com](#)

**For all your favorite puzzles go to
[PennyDellPuzzles.com](#)**

Copyright © 2011 Penny Press, Inc.