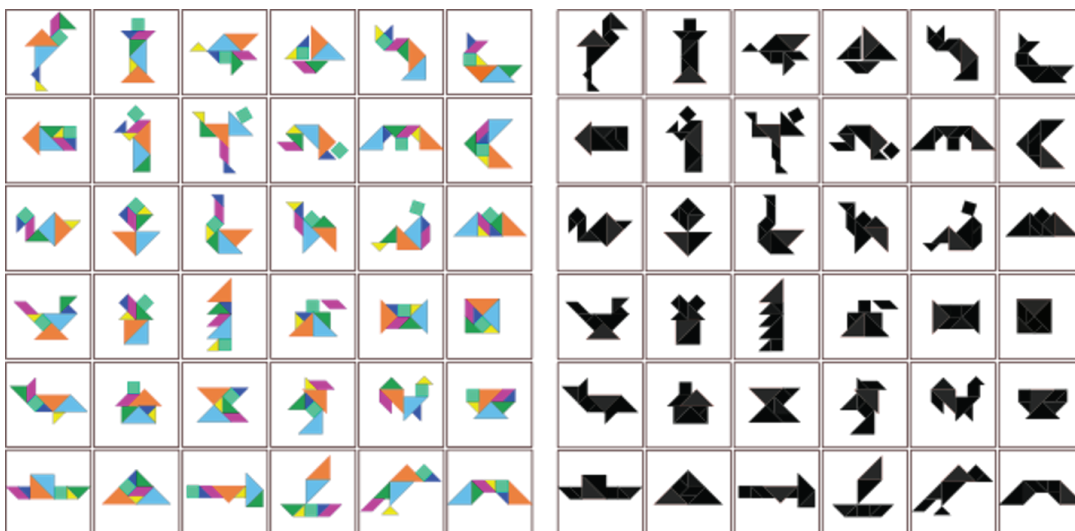


FAMILY MATH CHALLENGE SOLUTIONS



1. 10 different sums
2. Many possible solutions. How many can you find?
3. Answer:
 - a. Two men can play.
 - b. Novak won't play if Rafael plays.
 - c. So the two men must be Roger and Novak or Roger and Rafael.
 - d. Roger will only play if Sloane plays.
 - e. Sloane won't play with Novak.
 - f. So the two men are Roger and Rafael.
 - g. Rafael will only play if Venus plays.
 - h. So the two women are Sloane and Venus
4. Some possible solutions: 3×5 , $2 \times 5 + 4 + 1$, $7 \times 3 - 6$
5. Answers:
 - a. Sum of 36? Answer: 11, 12, 13
 - b. Sum of 90? Answer: 21, 22, 23, 24
 - c. Bonus question! Chris Evert, '75-'78 and Roger Federer, '04-'08
6. 3 times (Day 6, 12, and 18)
7. 15 girls on the team
8. 2 hours or 120 minutes
9. Examples like these can be found on the internet. On the left, for younger students, on the right, for older students



10. 6 total head-nods