

FAMILY MATH CHALLENGE



11. Zach went to the snack shack at today's tennis tournament and bought two hotdogs and three drinks for \$14. Drinks cost half the price of a hotdog. How much did one hot dog cost?

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12. Michael has 5 less wins than Samantha. Samantha has 10 more wins than Rob. Rob has 15 less wins than Hailey. How many more wins does Hailey have than Michael?

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13. Mr. Greg wanted to put two tennis courts in his backyard. This large square space needed to be fenced in. If he wanted 10 posts on each side of the square, how many posts did he need to buy?

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14. Our tennis team is standing around in a circle warming up for the day's matches. If player 2 is directly opposite player 7, and every other player is directly opposite a player, how many teammates are in the circle?

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19. Rob and Dan were waiting in line to grab a drink at the concession stand between matches. Dan says to Rob, "I have exactly \$1 in nickels and dimes. I have 16 coins. How many nickels and how many dimes do I have?"

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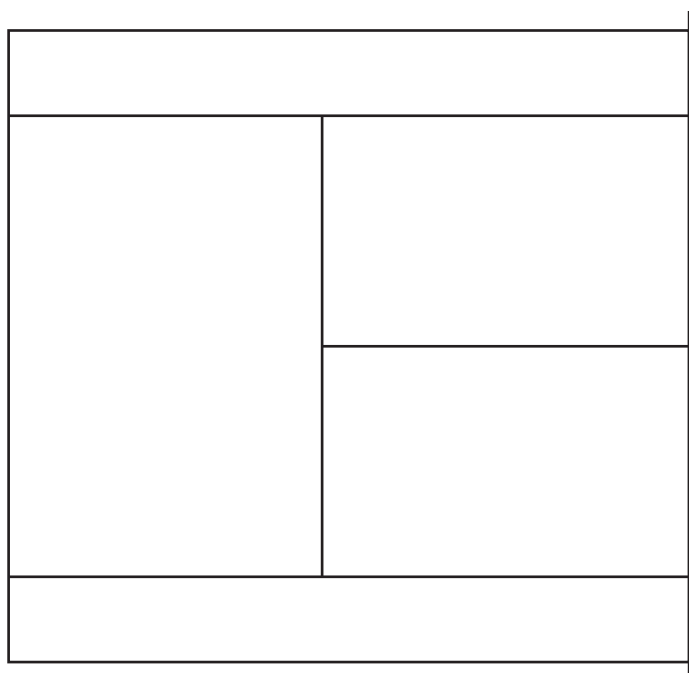
18. TENNIS COURT 'SUDOKU'

Place each of the numbers, 1 thru 10, in the regions of a doubles tennis court so that no two **consecutive numbers** are touching, **even at the corners**. (Remember, consecutive numbers are numbers in order. So, 2, 3, 4 are consecutive...while 5, 7, 8 are not)

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17. How many different quadrilaterals can you make using the lines found on this half of a doubles tennis court?



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16. If eight team members are standing 6 feet apart, how many feet must the coach walk to get from the first player to the last player?

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15. There are 32 players signed up for this weekend's single-elimination tennis tournament. How many matches will the eventual winner have to play to be crowned the champion?

BONUS QUESTION! How many matches must the eventual winner win in a 64-player tournament?

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20. Last week our tennis coach had the craziest idea. "Tomorrow will be Bring your Dog to Practice Day!" Once we stopped laughing, we realized he was serious! What a great day we had! I looked around and counted 25 heads and 64 feet on the court. That should be just enough information for you to figure out how many players and how many dogs were on the court that day.

FAMILY MATH CHALLENGE SOLUTIONS



- 11. One hotdog costs \$4
- 12. Hailey has 10 more wins than Michael
- 13. Mr. Greg needs 36 posts
- 14. 10 teammates are in the circle
- 15. The champion will have played 5 matches
 - Bonus Answer! The champion will have to play 6 matches.
- 16. The coach must walk 42 feet
- 17. There 10 quadrilaterals on one half of a doubles tennis court
- 18.

3		9	
6	1	7	5
	4	10	
2		8	

- 19. Dan has 12 nickels and 4 dimes
- 20. 7 dogs and 18 players showed up to Bring your Dog to Practice Day!