2021 Team Up Challenge

Crossnumber Puzzle

Team: _____

💡 **Tips to Get Started**

- This puzzle is like a crossword puzzle, with across clues and down clues. Your team will work together, with some of you solving the across clues and some solving the down clues.

- Start by looking for clues that can be solved right away. Then move on to the clues that rely on an answer from another clue.

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Across Clues

1. The range of $\boxed{22 \text{ ACROSS}}$ and $\boxed{19 \text{ DOWN}}$.

2. 50% of $\boxed{10 \text{ ACROSS}}$.

4. The number that should replace ■ when $\dfrac{23}{\boxed{12 \text{ DOWN}}} = \dfrac{■}{648}$.

7. A multiple of 109.

8. The sum of 110 and $\boxed{4 \text{ ACROSS}}$.

10. The total number of days in July and August.

12. The result when 45 is multiplied by itself and added to 30.

13. The product of 12 and 94.

16. A factor of $\boxed{8 \text{ ACROSS}}$.

18. A number that is the same when its digits are written in the reverse order.

21. A number whose middle digit is the median of its other two digits.

22. Seventeen dozen.

23. A number whose digits add to the sum of the digits in $\boxed{13 \text{ ACROSS}}$.

24. The smallest prime number greater than $\boxed{16 \text{ ACROSS}}$.

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Down Clues

1. The number that is 5 more than 16 times 20 DOWN.

3. The number that is $\frac{4}{5}$ of 12 ACROSS.

4. A number whose digits sum to 16.

5. An odd multiple of 5.

6. The length of a rectangle with area 1 DOWN and width 24 ACROSS.

9. The sum of the four angles (in degrees) in a square.

11. The number that is 6 more than 10 ACROSS.

12. A multiple of 8.

14. The digits of 21 ACROSS written in the reverse order.

15. Thirty-five more than the largest 3-digit multiple of 7.

17. The mean of 4 ACROSS and 19 DOWN.

18. The positive difference between 16 ACROSS and 12 DOWN.

19. The number of weeks that are equal to 15 DOWN days.

20. The value of $14 + 0.5 \times 36$.