



2024 Team Up Challenge

Crossnumber Puzzle

Across Clues

1. The number that is halfway between $\boxed{20 \text{ DOWN}}$ and $\boxed{25 \text{ ACROSS}}$.
3. A number whose digits multiply to 200.
5. The number of eggs in 6 dozen.
6. The value of $4 + \boxed{9 \text{ DOWN}} + 0.5 \times 90$.
8. The number of seconds in 11 minutes.
10. The positive difference between the two digits in this number is 3.
11. The area of a triangle with base $\boxed{10 \text{ DOWN}}$ and height $\boxed{23 \text{ ACROSS}}$.
13. The number of days needed to collect \$87, if \$3 is collected each day.
14. An odd multiple of 5.
17. The mean and the median of the three digits in this number are equal.
19. The number of positive integers less than $\boxed{17 \text{ ACROSS}}$ that are multiples of 5.
20. The number that is $\frac{2}{5}$ of $\boxed{8 \text{ ACROSS}}$.
21. The smallest 3-digit prime number.
23. The smallest positive integer whose digits multiply to 40.
24. The mode of the digits in this number is 4.
25. A number whose digits are the same as the digits in $\boxed{11 \text{ DOWN}}$, but are written in descending order.



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Down Clues

1. A number that is the same when the digits are written in reverse order.
2. A composite number that is not divisible by 3.
3. A number whose digits have the same sum as the digits in 10 ACROSS.
4. The mode of the three digits in this number is 2.
7. The number of months in 13 years.
9. The product of two equal integers.
10. The largest prime number that is a factor of 2024.
11. This number appears in the sequence where the first term is 85 and each term after the first is 21 ACROSS more than the previous term.
12. A number whose digits are three consecutive integers that are arranged, in order, to form the smallest possible number.
15. A number that lies between 23 ACROSS and 9 DOWN on the number line.
16. A number that is a factor of 7 DOWN.
18. When this number is divided by the sum of its digits, the result is 14 ACROSS.
19. A number that is greater than 3785 and is less than 3915.
20. The perimeter of an equilateral triangle with side length 79.
21. A number whose digits sum to 9.
22. The length of a rectangle with area 95 and width 5.



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Team: _____

	1		2		3			4
5			6	7				
						8	9	
10			11		12			
		13			14			15
	16		17	18			19	
20								
			21		22		23	
24					25			



Tips to Get Started

- This puzzle is like a crossword puzzle, except that the answers are numbers instead of words. Each empty square in the puzzle is to be filled with one digit.
- 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.