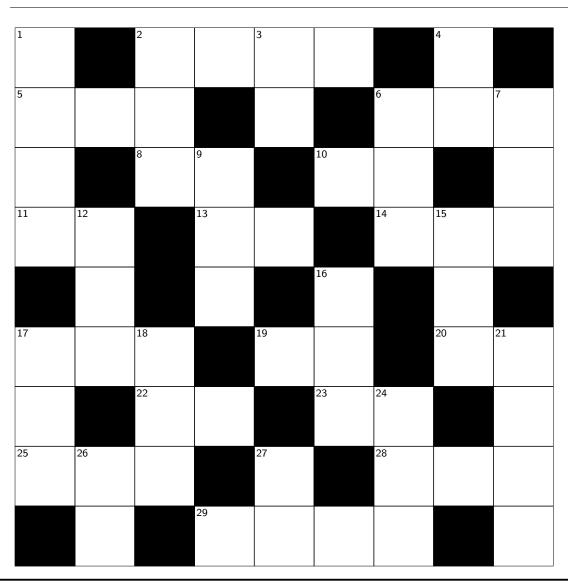# 2023 Team Up Challenge

Crossnumber Puzzle

Team: _____

💡 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.

2023 Team Up Challenge
Across Clues

2. A number whose digits have the same sum as the digits in $\boxed{1 \text{ DOWN}}$.

5. The number of centimetres in 2.9 metres.

6. This number appears in the sequence where the first term is $\boxed{2 \text{ ACROSS}}$ and each term is 121 less than the previous term.

8. The sum of three consecutive even integers.

10. The number of days in nine weeks.

11. The product of two equal integers.

13. The number that should replace ■ when $\dfrac{3}{11} = \dfrac{\blacksquare}{\boxed{19 \text{ ACROSS}}}$.

14. A number whose digits multiply to $\boxed{2 \text{ DOWN}}$.

17. A number whose tens digit is the median of the other two digits.

19. The sum of the numbers from 1 to 10, inclusive.

20. The smallest prime number greater than $\boxed{23 \text{ ACROSS}}$.

22. The largest prime number less than 100.

23. The result of $\boxed{19 \text{ ACROSS}}$ minus $\boxed{3 \text{ DOWN}}$.

25. One digit in this number is the sum of the other two digits.

28. The mode of the three digits in this number is 2.

29. The perimeter of a rectangle with length $\boxed{17 \text{ ACROSS}}$ and width $\boxed{18 \text{ DOWN}}$.

2023 Team Up Challenge
Down Clues

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

2. The number that is 10 less than the sum of $\boxed{10 \text{ ACROSS}}$ and $\boxed{19 \text{ ACROSS}}$.

3. The number of edges on a cube.

4. The width of a rectangle with perimeter $\boxed{7 \text{ DOWN}}$ and length $\boxed{23 \text{ ACROSS}}$.

6. A number whose digits are all different and all positive multiples of 3.

7. The number that is 80% of 195.

9. A number that is divisible by 4 and 13.

12. The number of quarters (worth $0.25 each) needed to make $31.75.

15. This number appears in the sequence where the first term is 5 and each term is $\boxed{20 \text{ ACROSS}}$ more than the previous term.

16. A number whose digits have the same sum as the digits in $\boxed{9 \text{ DOWN}}$.

17. The number that should replace ■ when $\dfrac{8}{\boxed{10 \text{ ACROSS}}} = \dfrac{104}{\blacksquare}$.

18. A number whose digits are the same as the digits in $\boxed{6 \text{ DOWN}}$, but not necessarily in the same order.

21. The volume of a rectangular prism with length $\boxed{19 \text{ ACROSS}}$, width $\boxed{13 \text{ ACROSS}}$, and height 9.

24. A multiple of $\boxed{22 \text{ ACROSS}}$.

26. The difference between the two digits in this number is 4.

27. The total number of dots on a standard die.