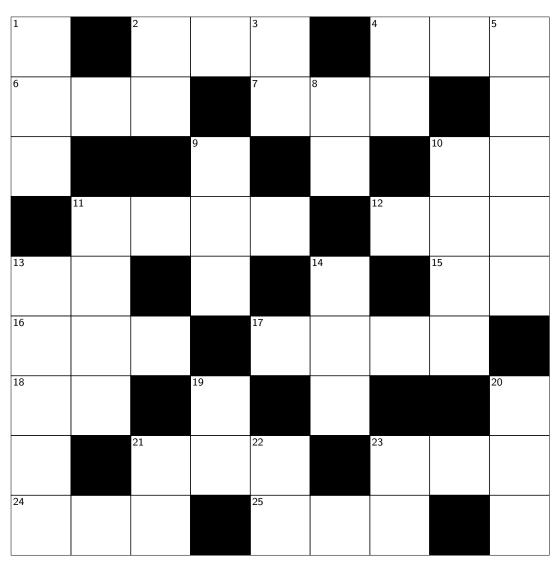# 2022 Team Up Challenge

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 positive 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.

2022 Team Up Challenge

Across Clues

2. The mode of the three digits in this number is 7.

4. A number whose factors include 27 and $\boxed{10 \text{ ACROSS}}$.

6. The positive difference between $\boxed{15 \text{ ACROSS}}$ and $\boxed{24 \text{ ACROSS}}$.

7. The mean and the median of the three digits in this number are equal.

10. The last two digits of $\boxed{14 \text{ DOWN}}$.

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

12. The product of three consecutive integers.

13. A multiple of 9.

15. The total number of sides that six squares have.

16. The number of nickels (worth $0.05 each) needed to make $29.35.

17. The volume of a rectangular prism with length $\boxed{4 \text{ DOWN}}$, width $\boxed{21 \text{ DOWN}}$ and height $\boxed{2 \text{ DOWN}}$.

18. The largest number that both 120 and 180 are divisible by.

21. A multiple of 49.

23. The number equal to $6 \times 100 + 1 \times 10 + 6$.

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

25. $\boxed{16 \text{ ACROSS}}$ minus an integer multiplied by itself.

2022 Team Up Challenge
Down Clues

1. A number whose digits multiply to 200.

2. A number that is equal to three times the sum of its digits.

3. The number that is 5% of $\boxed{11 \text{ DOWN}}$.

4. Two-fifths of $\boxed{13 \text{ ACROSS}}$.

5. A number whose digits are all different and all even.

8. An odd multiple of 3.

9. The product of 5 and 79.

10. The number that is 56 less than twice $\boxed{11 \text{ ACROSS}}$.

11. The number of millimetres in 158 centimetres.

13. A number where each digit is one more than the digit before it.

14. The number of hours in 14 days.

19. The smallest prime number greater than $\boxed{15 \text{ ACROSS}}$.

20. The number that should replace $\blacksquare$ when $\dfrac{1}{9} = \dfrac{\boxed{4 \text{ DOWN}}}{\blacksquare}$.

21. A factor of $\boxed{11 \text{ ACROSS}}$.

22. The product of two equal integers.

23. The height of a triangle with area $\boxed{17 \text{ ACROSS}}$ and base $\boxed{20 \text{ DOWN}}$.