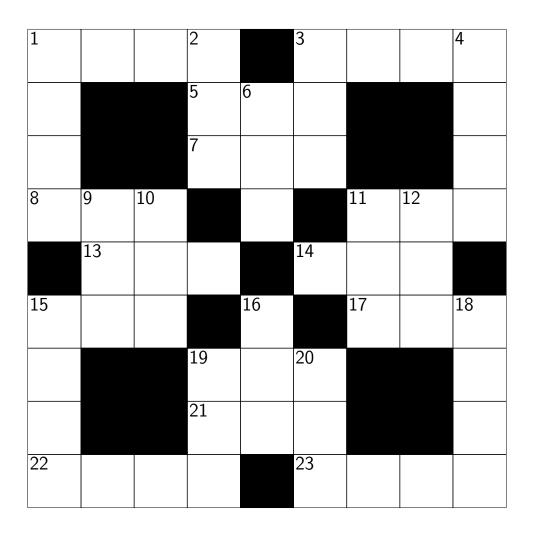# CEMC at Home

Grade 7/8 - Tuesday, March 24, 2020
Crossnumber Puzzle

Use the clues on the next page to complete the crossnumber puzzle below. Each square of the grid will contain exactly one digit. Notice that some answers can be found using only the given clue, and some need the answers from other clues.

More Info:

Check out the CEMC at Home webpage on Wednesday, March 25 for a solution to the Crossnumber Puzzle.

Across

1. The result of $\left(1000 - \boxed{2 \text{ DOWN}}\right) \times 103$.

3. A number whose digits are all perfect squares and add to 31.

5. The value of $11 \times 12 + 13$.

7. The number of centimetres in 7.29 metres.

8. A telephone area code in Waterloo, Ontario, Canada.

11. A number whose digits add to a multiple of 9.

13. A rearrangement of the digits in the quotient when $\boxed{10 \text{ DOWN}}$ is divided by 3.

14. A prime number less than 200.

15. The sum of $\boxed{9 \text{ DOWN}}$ and $\boxed{7 \text{ ACROSS}}$.

17. The result when $\boxed{14 \text{ ACROSS}}$ is multiplied by 8.

19. The number of days in a leap year.

21. The total value (in cents) of 5 quarters, 3 dimes, and 2 nickels.

22. A number whose digits are all perfect squares and add to 15.

23. The perimeter of a square with side length $\boxed{20 \text{ DOWN}}$ units.

Down

1. A multiple of 5 between $\boxed{15 \text{ DOWN}}$ and $\boxed{18 \text{ DOWN}}$.

2. The result of $\boxed{5 \text{ ACROSS}}$ multiplied by 6, then added to 47.

3. A number whose first two digits add to its third digit.

4. The least common multiple of $\boxed{11 \text{ ACROSS}}$ and $\boxed{21 \text{ ACROSS}}$.

6. A palindrome.

9. The value of $5 \times 5 \times 5$.

10. The largest 3-digit multiple of 24.

11. A number that is $\dfrac{2}{3}$ of 1212.

12. The number of seconds in 8.5 minutes.

15. $\boxed{14 \text{ ACROSS}}$ less than a multiple of 1000.

16. The sum of $\boxed{21 \text{ ACROSS}}$ and $\boxed{14 \text{ ACROSS}}$.

18. The product of $\boxed{17 \text{ ACROSS}}$ and 11.

19. The first three digits in π (pi).

20. A number whose digits multiply to 60.