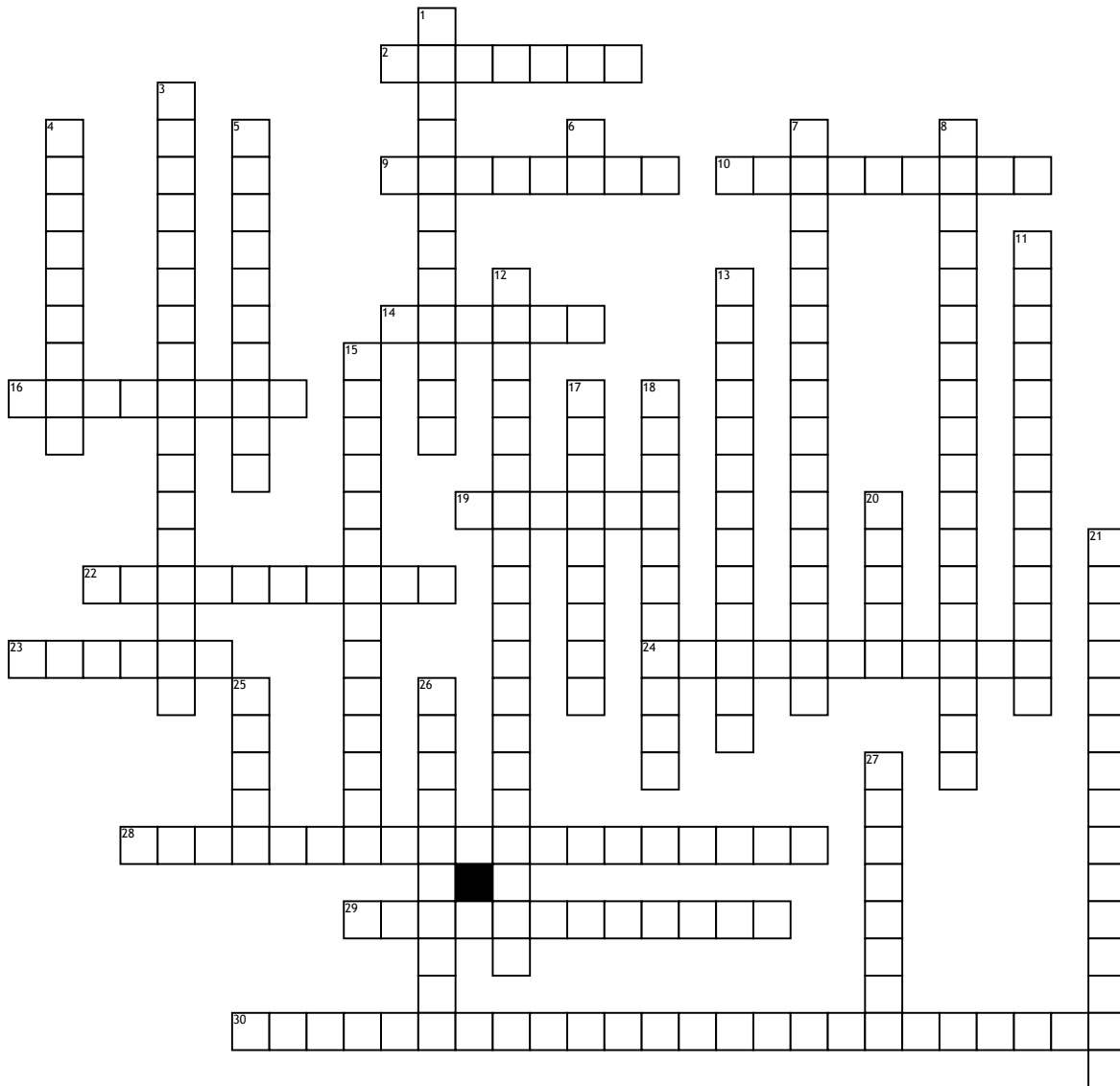


Mathematic Crossword Puzzle



Across

2. two figures are similar, the ratios of the lengths of their corresponding sides are equal
9. relationship where each input has a single output
10. a curve corresponding in direction to the typical forward movement of the hands of a clock
14. a circle or sphere is any of the line segments from its center to its perimeter, and in more modern usage, it is also their length
16. a transformation that produces an image that is the same shape as the original, but is a different size
19. a Euclidean space is a special point, usually denoted by the letter O, used as a fixed point of reference for the geometry of the surrounding space
22. the sides are a certain number of times as long as the corresponding sides in the original
23. the locus of all points equidistant from a central point
24. a line that passes through two lines in the same plane at two distinct points
28. a variable that represents a quantity that is being manipulated in an experiment

29. can generally be expressed as a ratio between a change in one variable relative to a corresponding change in another; graphically, the rate of change is represented by the slope of a line

30. an operator acting on a given space of sequences

Down

1. a circle is the distance around the circle, it is the circle's perimeter
3. what is being measured in an experiment or evaluated in a mathematical equation
4. is mathematical phrase that can contain ordinary numbers, variables (like x or y) and operators
5. a number is a number which multiplied by itself, gives you the original number
6. approximately 3.142. It is the circumference of any circle divided by its diameter
7. the opposite direction to the way in which the hands of a clock move around
8. direct proportionality that, when plotted on a graph, traces a straight line
11. an angle of 180°

12. transformation that does not alter the size or shape of a figure; rotations, reflections, translations are all rigid transformations

13. when two angles add up to 180°

15. original shape of the object is called the preimage and the final shape and position of the object is the image under the transformation

17. an angle is the same shape, size and length

18. Moving without rotating, resizing or anything else, just moving

20. the 'steepness' of the line, also commonly known as rise over run

21. a two-dimensional number line where the vertical line is called the y-axis and the horizontal is called the x-axis

25. the subset of a function's codomain which is the output of the function from a subset of its domain

26. transformation in which a geometric figure is reflected across a line, creating a mirror image. That line is called the axis of reflection

27. a circle is any straight line segment that passes through the center of the circle and whose endpoints lie on the circle