

# GEOMETRY

## 1 FILL IN THE MISSING WORD

The space between two lines that meet is called an ANGLE.

An object with four right angles is a RECTANGLE.

A TRIANGLE is a flat shape with three sides and three angles.

The space that a 3-dimensional object fills is called its VOLUME.

The AREA is the surface that covers a figure.

A PARALLELOGRAM has four sides. The two opposite sides are always parallel.

A right triangle has three sides – one HYPOTENUSE and two LEGS.

When many segments of a line meet and create a closed object we call it a POLYGON.

An object with a curved line and the same distance from its center to all of the points on its border is a CIRCLE.

A RAY is a line with a starting point and an arrowhead.

A CUBE is a solid that has six equal faces.

A PRISM has two parallel bases and its other sides are parallelograms.

A ball-shaped object is a SPHERE.

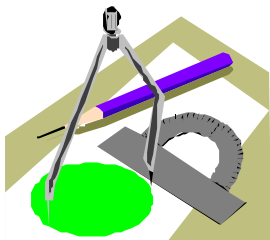
A triangle that has three equal sides is called EQUILATERAL.

An OCTAGON is a polygon with eight sides.

The line that cuts a circle into two exact halves is the DIAMETER.

## 2. FIND QUESTIONS THAT LEAD TO THESE ANSWERS. (THESE ARE ONLY POSSIBLE ANSWERS. THERE ARE OF COURSE MANY MORE !)

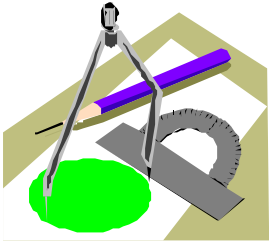
CONE	Which geometrical object has a round base and is pointed at the opposite end ?
HEXAGON	Which polygon has six sides?
PARALLEL	What do we call two lines that never meet ?
SOLID	What is a three-dimensional object called ?
RADIUS	What is the line from the center to the border of a circle called ?
QUADRILATERAL	What are polygons with four sides called ?



# GEOMETRY

## 3 WHICH OF THESE STATEMENTS ON GEOMETRY ARE TRUE OR FALSE ?

	T	F
The Pentagon is a building in Washington with six equal sides.		X
The angles of a triangle always make up a total of $360^\circ$ .		X
A right triangle has two legs and a hypotenuse.	X	
The size of an angle is measured in degrees.	X	
A parallelogram never has right angles.		X
Pythagoras found out that there is a connection between the length of the legs and the hypotenuse of a right triangle.	X	
Solids are objects with three dimensions	X	
The distance from the middle of a sphere to every point on its surface is always the same.	X	
The diameter of a circle is the radius multiplied by 3.14159		X
A pyramid has two bases that are parallel to each other.		X
The area of a rectangle is its length multiplied by its width.	X	
The constant 3.14159 is used when you want to calculate the surface of a cube.		X
Planes have two dimensions	X	
Two lines that never meet are parallel.	X	
An equilateral triangle always has at least one right angle.		X
A cone has a round base and is pointed at the other end.	X	
A hexagon has eight sides.		X
An acute angle is more than $90^\circ$ .		X
A cube has faces that are all the same.	X	
The amount of space that a solid fills is called its volume.	X	

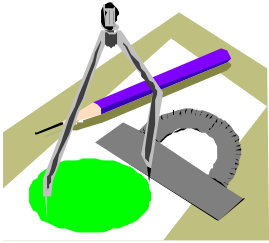


# GEOMETRY

## 4 MATCH THE WORDS WITH THE DEFINITIONS

A	obtuse
B	cube
C	surveyor
D	triangle
E	equilateral
F	opposite
G	segment
H	polygon
I	honeycomb
J	polyhedron
K	pipe
L	diameter
M	calculate
N	cone

C	a person who measures land
F	on the other side
N	an object that is round at one end and pointed at the other
A	an angle of more than $90^\circ$ .
I	a structure made by bees to store their honey
H	many lines that join to make a closed figure
K	a tube through which water and other things can flow
L	a straight line through a circle that cuts it in half
E	all sides are the same
B	an object with six equal sides
M	to work out the size, length or volume of something
J	a solid shape with many sides
G	part of a line
D	a flat shape with three sides and three angles



# GEOMETRY

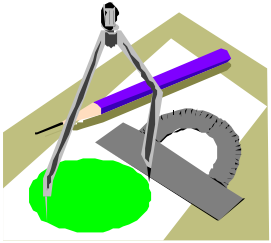
5 FIND 12 WORDS THAT HAVE SOMETHING TO DO WITH GEOMETRY AND MARK THEM ←→↓↖↗

A crossword puzzle grid with the following letters:

```
      G
    D V T
  G F X O P
Y Y T D D L I
S U R F A C E U N
N S Q B B X I N G M C
R A D I U S C R G C R E I
V V F C I E A O C T B P E A Q
Z M M O A E R L H R J X E
L E A N G L E I I B B
C U B E B S A D F
V G N M L T Q
  C X I Z M
    P L V
      A
```

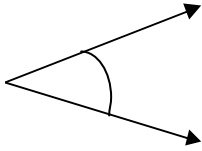
Words found and marked in the grid:

- ANGLE
- CUBE
- RADIUS
- SURFACE
- TRIANGLE
- DIAGONAL
- PERPENDICULAR
- PARALLEL
- RECTANGLE
- CIRCLE
- QUADRANT
- GEOMETRY

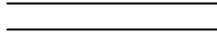


# GEOMETRY

6 PUT THE CORRECT GEOMETRICAL NAMES INTO THE BOX !



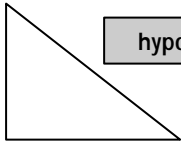
angle



parallel lines



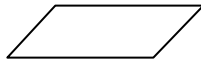
ray



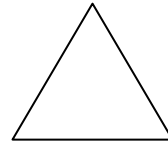
leg

hypotenuse

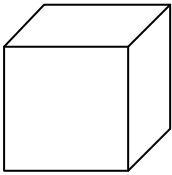
leg



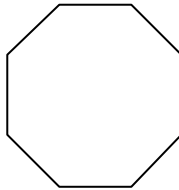
parallelogram



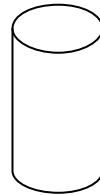
equilateral triangle



cube



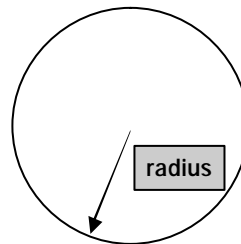
octagon



cylinder

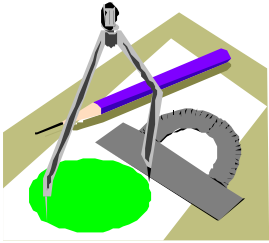


rectangle



radius

circle



# GEOMETRY

## 7 CROSSWORD

