

## ! Print Single-Sided !

# 20-sided Dice - Icosahedron

#### **Description:**

A 20-sided die is a three-dimensional shape called an icosahedron. An icosahedron is a polyhedron with 20 triangular faces, five meeting at each vertex. It is one of the five regular Platonic solids, which were named after Plato, a philosopher from Ancient Greece. An icosahedron has 43,380 possible patterns or "nets" when flattened onto a piece of paper; compared to the 11 nets for a cube.



#### **Icosahedron Quick Facts:**

- Faces: 20
- Vertices: 12
- Edges: 30

! Many viruses use the icosahedron shape for their shell as it can be built by repeating a single basic unit protein over and over again; saving space in the viral genome.

#### Blank 20-sided Die – Small





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Activity Sheet for Game Dice Polyhedrons

## Blank 20-sided Die – Large





### Numbered 20-sided Die – Large

