

Geometry Grid Games Table of Contents

Rules for playing Grid Games

Suggestions

Alternative Ideas

I. Basic Terms

Geometry Symbols

Identify the basic geometric figure

II. Coordinate Geometry

Midpoint

Given 2 points, find the midpoint

Distance

Given 2 points, find the distance between the points

III. Triangle Properties

Triangle ID

Given angle measures, identify the type of triangle

Triangle ID2

Given side measures, identify the type of triangle

Triangle Sums

Given two angles of a triangle, find the missing angle

IV. Angles

Comp&Supp

Find the complement and the supplement of the given angle

Angles

Given a geometric picture, find the missing angle measure

Parallel lines

Given parallel lines, find the missing angle measure

Types of angles

Identify the relationship between each given pair of angles

V. Polygon Relationships

Polygons

Identify and describe each polygon

Interior Angles

Given a regular polygon, find each interior angle and the interior angle sum

Exterior Angles

Given a regular polygon, find each exterior angle and the exterior angle sum

Parallelograms

Use parallelogram properties to find the missing angles and sides

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VI. Circle Relationships

Circles - Angles 1

Given central angles and arcs, find the missing measures

Circles - Angles 2

Given inscribed angles, chords, and arcs, find the missing measures

Circles - Chords and Angles

Given secants, tangents, chords, and arcs, find the missing measures

VII. Right Triangle Relationships

Pythagorean Theorem

Given a right triangle, find the missing side measure

Trig Ratios

Set of trig ratios to solve a triangle

Solving Triangles

Use trig to find the missing side measure

Solving Triangles2

Use trig to find the missing angle measure

30-60-90 Special Triangles

Use 30-60-90 angle relationships to find the missing side measures

45-45-90 Special Triangles

Use 45-45-90 angle relationships to find the missing side measures

VIII. Perimeter, Area, Surface Area, and Volume

Polygons

Find the perimeter and area of each polygon given

Circles

Find the circumference of each circle given

Circles Area

Find the area of each circle given

Area of Regions

Find the area of each region given

Prism SA

Find the surface area of each prism rectangular prism given

Cylinder SA

Find the surface area of each cylinder given

Prism V

Find the volume of each rectangular prism given

Cylinder Volume

Find the volume of each cylinder given

Sphere Surface Area

Find the surface area of each sphere given

Sphere Volume

Find the volume of each sphere given

Cone/Pyramid Volume

Find the volume of each cone or pyramid given