

Geometry Coloring Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

What is the name of a three-sided polygon?
Hint: Think about the basic shapes you know.
 A) Square B) Triangle ✓ C) Rectangle D) Pentagon
The correct answer is Triangle.
Which of the following are types of quadrilaterals? (Select all that apply) Hint: Consider the shapes with four sides.
 A) Square ✓ B) Triangle C) Rectangle ✓ D) Circle
The correct answers are Square, Rectangle.

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Describe the difference between an acute angle and an obtuse angle.

Hint: Think about the measures of the angles.



An acute angle is less	than 90 degrees, while an obtuse angle is greater than 90 degrees.
st the properties of an e	quilateral triangle.
lint: Consider the sides and a	angles of the triangle.
. What is the length of each s	side?
All sides are equal	
. What is the measure of eac	ch angle?
Each angle is 60 d	egrees.
. What type of triangle is it?	
It is a regular triang	gle.
An equilateral triangle ha	as three equal sides and three equal angles, each measuring 60 degrees
Part 2: Understandin	g and Interpretation

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Which shape has exactly one line of symmetry?



Hint: Think about shapes that can be folded in half.
○ A) Circle
○ B) Rectangle
○ C) Isosceles Triangle ✓
O) Scalene Triangle
The correct answer is Isosceles Triangle.
Which of the following statements are true about circles? (Select all that apply)
Hint: Consider the properties of circles.
□ A) All radii of a circle are equal. ✓
□ B) A circle has no edges. ✓
☐ C) The diameter is twice the radius. ✓
D) A circle has four corners.
The correct answers are All radii of a circle are equal, A circle has no edges, The diameter is twice the radius.
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Explain how you can determine if a shape is symmetrical.
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Hint: Think about how you can fold or divide the shape. A shape is symmetrical if it can be divided into two identical halves by a line. Part 3: Application and Analysis If a rectangle has a length of 8 cm and a width of 3 cm, what is its perimeter?



\bigcirc	B) 22 cm √
\bigcirc	C) 24 cm
0	D) 16 cm
	The perimeter is calculated as 2(length + width), which equals 22 cm.
	u have a piece of paper in the shape of a square. Which of the following transformations will sult in a shape that is still a square? (Select all that apply)
Hi	nt: Consider how the shape can be manipulated.
	A) Rotating 90 degrees ✓ B) Cutting one corner C) Folding it in half D) Rotating 180 degrees ✓
	The correct answers are Rotating 90 degrees, Rotating 180 degrees.
	scribe a real-world scenario where calculating the area of a triangle would be necessary.
	scribe a real-world scenario where calculating the area of a triangle would be necessary. at: Think about situations involving triangular shapes.
Hill	calculating the area of a triangle is necessary in scenarios like determining the amount of paint
W	Calculating the area of a triangle is necessary in scenarios like determining the amount of paint needed for a triangular wall.
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W	Calculating the area of a triangle is necessary in scenarios like determining the amount of paint needed for a triangular wall. hich of the following shapes can be divided into two identical parts with a single straight cut? htt: Consider the shapes that can be split evenly. A) Scalene Triangle



The correct answer is Rectangle.
Analyze the following statements and identify which are true about the relationship between radius and diameter. (Select all that apply)
Hint: Think about the definitions of radius and diameter.
A) The diameter is half the radius.
B) The radius is half the diameter. ✓
C) Doubling the radius doubles the diameter. ✓D) The radius is twice the diameter.
The correct answers are The radius is half the diameter, Doubling the radius doubles the diameter.
Compare and contrast the properties of a parallelogram and a rectangle.
Hint: Think about the definitions and properties of both shapes.
A parallelogram has opposite sides that are equal and parallel, while a rectangle has all angles equal to 90 degrees.
Part 4: Evaluation and Creation
Which of the following statements best evaluates the properties of a rhombus?
Hint: Consider the characteristics of a rhombus.
A) All sides are equal, and all angles are 90 degrees. D) Opposite sides are equal, and apposite angles are equal.
○ B) Opposite sides are equal, and opposite angles are equal.○ C) All sides are equal, and opposite angles are equal. ✓
D) Only two sides are equal, and all angles are 90 degrees.



	The correct answer is All sides are equal, and opposite angles are equal.
	valuate the following transformations and select which ones maintain the original area of a shape. elect all that apply)
Н	nt: Consider how transformations affect area.
	A) Translation ✓ B) Rotation ✓ C) Reflection ✓ D) Scaling
	The correct answers are Translation, Rotation, Reflection.
ex	esign a simple geometric pattern using at least three different shapes. Describe the pattern and eplain how symmetry is used. In: Think about how shapes can be arranged.
	This training about now shapes our so arranged.
	A geometric pattern can include shapes like triangles, squares, and circles arranged