

Math Worksheets For 8th Graders

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Part 1: Building a Foundation	
What is the value of \(2^3\)?	
Hint: Think about the definition of exponentiation.	
○ A) 6○ B) 8○ C) 9	
○ D) 12	
Which of the following are properties of a linear function?	
Hint: Consider the characteristics of linear functions.	
 A) Constant rate of change B) Graph is a straight line C) Has a maximum point D) Can be represented by \(y = mx + b\) 	
Explain in your own words what the Pythagorean Theorem is and provide an exame Hint: Think about right triangles and the relationship between the sides.	ıple.
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List the steps to solve a system of equations using the substitution method.



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Hint: Consider how you can isolate a variable.
1. Step 1
2. Step 2
3. Step 3
Part 2: Comprehension and Application
Which transformation involves flimning a figure area a line?
Which transformation involves flipping a figure over a line?
Hint: Think about how a mirror image works.
A) Translation
○ B) Rotation○ C) Reflection
○ D) Dilation
Which of the following are true about rational numbers?
Hint: Consider the definition of rational numbers.
A) They can be expressed as a fraction
B) They include repeating decimals
C) They are always positive
D) They can be whole numbers
If a triangle has sides of 3 cm, 4 cm, and 5 cm, what is the area of the triangle?
Hint: Use the formula for the area of a triangle.
○ A) 6 cm²
○ B) 12 cm²
○ C) 10 cm ²
○ D) 8 cm²

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a red or blue marble?
Hint: Consider the total number of marbles.
☐ A) 1/2
□ B) 4/5
☐ C) 8/10
□ D) 2/5
Apply the Pythagorean Theorem to find the length of the hypotenuse of a right triangle with legs of 7 cm and 24 cm.
Hint: Use the formula $(a^2 + b^2 = c^2)$.
Part 3: Analysis Evaluation and Creation
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Which graph represents a function that is not linear? Hint: Think about the shape of the graph. A) A straight line B) A parabola C) A horizontal line D) A diagonal line Analyze the following statements and identify which are true about transformations: Hint: Consider the effects of each transformation.

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D) A reflection changes the size of a figure
Which method would be most efficient for solving the system of equations: $(2x + 3y = 6)$ and $(4x - y = 5)$?
Hint: Consider the methods for solving systems of equations.
○ A) Graphi ng
○ B) Substitution
○ C) Elimination
O) Trial and error
Create a real-world scenario where you would use the Pythagorean Theorem. Which of the following scenarios apply?
Hint: Think about situations involving right triangles.
A) Determining the height of a tree using a shadow
□ B) Calculating the distance between two points on a map
C) Finding the area of a rectangle
D) Designing a triangular garden plot
Propose a method to teach the concept of linear functions to a peer who is struggling. Include examples and visual aids in your explanation.
Hint: Think about how you can simplify the concept.