

# 8th Grade CCSS Math Vocabulary Matching 10

Write the word that best matches each definition or clue.

1. SPHERE VOLUME The number of cubic units needed to fill a sphere.
2. DILATION A transformation created proportionally by enlarging or reducing a figure.
3. PYTHAGOREAN THEOREM In a right triangle, the square of the length of the hypotenuse is equal to the sum of the squares of the lengths of the legs ( $A^2+B^2=C^2$ ).
4. CONE VOLUME The number of cubic units needed to fill a cone.
5. TRANSLATION A transformation created by sliding an object.
6. EXTERIOR ANGLES An angle formed outside a polygon by extending one of its sides.
7. CONGRUENT Having the same size and shape.
8. PLANE A flat two-dimensional surface that goes in all directions forever
9. REFLECTION A transformation created by reflecting (flipping) an image over a line.
10. RADICAL SYMBOL The symbol used to represent the non negative square root of a number.
11. IMAGE A figure resulting from a transformation.
12. TRANSVERSAL A line that intersects two or more lines in a given plane.
13. HYPOTENUSE The side opposite the right angle. It is the longest side of a right triangle.
14. ROTATION A transformation made by turning or spinning a figure around a given point.
15. PROOF A convincing demonstration that a mathematical statement is true.
16. TRANSFORMATION Moving a shape so that it is in a different position, but still has the same size, area angles, and line lengths.
17. PRE-IMAGE The original image before transformation.
18. SLOPE A measure of the steepness of a line on a graph.

A. Pythagorean Theorem  
D. dilation  
G. hypotenuse  
J. plane  
M. radical symbol  
P. reflection

B. image  
E. transformation  
H. sphere volume  
K. congruent  
N. exterior angles  
Q. pre-image

C. slope  
F. transversal  
I. rotation  
L. translation  
O. proof  
R. cone volume