

ISAT Math Words, Grades 3-8

Math includes important vocabulary that you need to use to understand it. The following words were part of the ISAT Sample Test for 2008. The charts show the grade level at which the sample tests first include each word. Students need to be able to use those terms at all the subsequent grade levels once introduced.

To enable student to learn more math with these words, were are three activities:

Make a math glossary. Write about math. Use these words in questions.

3rd Grade

all	amount	centimeter
certain	chances	chart
cone	congruent	cube
data	describe	digit
each	equal	exactly
fewer	figure	greatest
half	hexagon	inch
likelihood	likely	line
mode	model	number line
numerals	order	pattern
perimeter	pictograph	point
prism	rectangle	rectangular
repeating	score	shaded
shape	size	solve
symbol	tally	total
unit	vertex	volume
worth		

4th Grade

about	area	balance
characteristic	collect	combination
cubic	cylinder	equivalent
exact	expression	fraction
fractional	greater	grid
less	line segment	multiply
number sentence	pentagon	population
probability	rectangular prism	results
segment	set	side
square	subtract	survey
symmetry	trapezoid	triangle
triangular	triangular prism	value
Venn diagram	vertices	

5th Grade

actual	acute angle	angle
calculated	coordinate	determine
dimension	dimensional	include
input	intersect	item
mean	obtuse angle	output
ratio	rectangular pyramid	right angle
scale	triangular pyramid	

6th Grade

additional	bar graph	circle graph
facts	height	increase
inequality	maximum	median
pairs	parallel	perpendicular
quantity	randomly	range
table		

7th Grade

approximately	decreases	diameter
ordered	parallelogram	pi
polygon	right triangle	scatter plot
square pyramid	terms	

8th Grade

circumference	consecutive	cylindrical
data point	integer	millimeter
negative	positive	power
quadrilateral	sector	slope
solution	surface area	x-axis
y-axis		

MATH SYMBOLS

Students need to know these symbols, not only for ISAT but to be fluent in math.

Recommended activities—have students:

- √ *make a symbol chart*
- √ *play a symbol-phrase matching game*
- √ *make up problems using these symbols*
- √ *put the symbols on cards and put numbers on other cards and have them make up math sentences using these symbols and the numbers*

1. operation signs—add, subtract, multiply, divide (3)
2. the symbol for a degree, as it relates to an angle (6)
3. the symbol for a finite line segment (6)
4. the symbol for a triangle (8)
5. the symbol for an angle (6)
6. the symbol for an inequality in which one quantity is greater than or equal to another (7)
7. the symbol for an inequality in which one quantity is greater than another (6)
8. the symbol for an inequality in which one quantity is less than or equal to another (7)
9. the symbol for an inequality in which one quantity is less than another (6)
10. the symbol for base (7)
11. the symbol for diameter (7)
12. the symbol for height (7)
13. the symbol for pi (7)
14. the symbol for radius (7)
15. the symbol for the square root of a number (8)
16. the symbol for volume (7)

WORDS STUDENTS MAY FIND IN DIRECTIONS AND QUESTIONS

These words are included in questions and directions on the ISAT sample for all of grades 3-8, except for the following terms, which are included in the sample tests for grades 4-8: conclusive, measurable, relate, relationship

- √ *To help students understand these words individually, have them make a glossary.*
- √ *To help them recognize and comprehend them in questions, have them write statements and questions using these words.*

cause	compare	comparison
conclude	conclusion	conclusive
contrast	diagram	effect
estimate	estimation	graph
identification	identify	key
label	measurable	measure
predict	prediction	reflect
reflection	relate	relationship
represent	representation	similar
similarity	translate	