

ISAT Math Terms, Grades 3-8

The following words were identified as part of the ISAT Sample Test.

The number after each word is the grade at which the sample tests first include that item. Students will need to be fluent with those terms at the higher grade levels as well.

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)

MATH WORDS

The following words are part of ISAT sample questions requiring students to know these parts of mathematics.

To help students comprehend them, students can:

- √ *Make a math term glossary*
- √ *Write about math using some of these words*
- √ *Make up questions using these words*

acute angle (5)	angle (5)	approximately (7)
area (4)	bar graph (6)	centimeter (3)
characteristic (4)	chart (3)	circle graph (6)
circumference (8)	cone (3)	congruent (3)
consecutive (8)	coordinate (5)	cube (3)
cubic (4)	cylinder (4)	cylindrical (8)
data (3)	data point (8)	diameter (7)
digit (3)	dimension (5)	dimensional (5)
equal (3)	equivalent (4)	expression (4)
figure (3)	fraction (4)	fractional (4)
grid (4)	hexagon (3)	inequality (6)
input (5)	integer (8)	intersect (5)
likelihood (3)	likely (3)	line segment (4)
maximum (6)	mean (5)	median (6)
milliliter (8)	mode (3)	negative (8)
number line (3)	number sentence (4)	obtuse angle (5)
output (5)	parallel (6)	parallelogram (7)
pattern (3)	pentagon (4)	perimeter (3)
perpendicular (6)	pi (7)	pictograph (3)
point (3)	polygon (7)	positive (8)
prism (3)	probability (4)	quadrilateral (8)
randomly (6)	range (6)	ratio (5)
rectangle (3)	rectangular (3)	rectangular prism (4)
rectangular pyramid (5)	repeating (3)	right angle (5)
right triangle (7)	scale (5)	scatter plot (7)
sector (8)	segment (4)	slope (8)
solve (3)	square (4)	square pyramid (7)
surface area (8)	survey (4)	symmetry (4)
table (6)	tally (3)	trapezoid (4)
triangle (4)	triangular (4)	triangular prism (4)
triangular pyramid (5)	value (4)	Venn diagram (4)
vertex (3)	vertices (4)	volume (3)
x-axis (8)	y-axis (8)	

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	