

**6<sup>th</sup> Grade ISAT Integration MATH**

<b>MATH FOCUS</b>	<i>ISAT Sample Items—Use as models to create math challenges.</i>
<b>Operations and Probability</b>	<p>What number goes in the box (given a multi-step number problem)?</p> <p>Greg took five tests. Each test is worth 100 points. Here are Greg's scores: 85, 87, 87, 89, 9. What is his mean score for these five tests?</p> <p>Which spinner is most likely to have the arrow stop on B?</p>
<b>Fractions, Decimals, Percentages</b>	<p>Ann runs 100 meters in ten and sixty-two hundredths seconds. What is her time written as a number?</p> <p>There are 50 beans in a bag. Twenty percent are red. How many are red?</p> <p>Look at Tom's work list. How much time does it take to do all of his work?</p>
<b>Analyzing Graphs and Data</b>	<p>Students voted for their favorite books. How many more students voted for books about adventures than books about sports (based on bar graph).</p> <p>The Venn Diagram shows how many more students play baseball and football. How many students play baseball but not football?</p> <p>Carl has 16 books. The bar graph shows the number of each type of books. Which circle graph best shows the types of books Carl has?</p>
<b>Algebra</b>	<p>Mike has <math>x</math> baseball cards. Tyrone has 3 times as many. Frank has baseball cards. Which expression represents how many cards they have in all?</p> <p>What is the value of the expression below when <math>x = 6</math> and <math>y = 2</math>?</p> <p>What value of <math>n</math> makes the equation below true?</p> <p>Which correctly describes the rule between <math>x</math> and <math>y</math>?</p> <p>Which table best fits the equation.</p> <p>The graph shows a linear equation. If <math>x</math> is 7 on the graph, what is <math>y</math>?</p> <p>Jan has 18 cards, Ray gives her <math>v</math> cards. She now has less than 30 cards. Which best describes her cards?</p>
<b>Geometry and Measurement</b>	<p>Use your ruler to answer the question. About how long and wide is the rectangle?</p> <p>Which rectangle has an area of 24 square units and a perimeter of 20 units?</p> <p>Which is closest to the measure of angle XYZ?</p> <p>What should be the value for <math>x</math> in the triangle shown?</p> <p>Lines <math>w</math> and <math>x</math> intersect lines <math>y</math> and <math>z</math> to make a rectangle. What is true?</p> <p>Which streets do not intersect?</p> <p>What solid figure will this pattern make when it is folded on the dotted lines.</p> <p>Triangle RST is similar to triangle XYZ. Line RS corresponds to which side of triangle XY?</p> <p>Use your centimeter ruler. How far is it, in feet, from the tree to the swing?</p>