

8th Grade ISAT Integration MATH

| MATH FOCUS | <i>ISAT Sample Items—Use as models to create math challenges.</i> |
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| Operations, Probability, and Number Knowledge | <p>Which point best represents the square root of 10 on a number line?</p> <p>Look at the additional patterns below. Using this pattern, how many numbers must be added to equal 64?</p> <p>Mike has 2 red apples and 3 green apples. Without looking, he takes two apples. What is the probability that Mike takes two red apples?</p> <p>Math books have between 200 and 600 pages. Which number line shows this?</p> |
| Fractions, Decimals, Percentages | <p>A school had N students last year. There are n% more this year. How many students are there?</p> <p>Amy has $\frac{n}{X}$ of a yard of string to make bracelets. She needs $\frac{n}{Y}$ of a yard to make each one. What is the most number of bracelets she can make?</p> <p>The circle graph represents a total of 240 animals. The shaded area represents the number of monkeys. How many of the animals are monkeys?</p> |
| Analyzing Graphs and Data | <p>Which graph shows $y = 3$?</p> <p>The graph of a line contains the points (5, 3) and (5, -1). Which must be true about the graph of this line?</p> <p>Which graph shows a line of best fit?</p> |
| Algebra | <p>Which equation shows the relationship between x and y?</p> <p>If it is true that $16n < 16$ and $p > 0$ and $P < 16$, what is true about n?</p> <p>The inequality $70 \text{ degrees} < x < 80 \text{ degrees}$ represents the range of best water temperature for Sammy's fish. Which statement is true about the water temperature?</p> <p>What is the value of x?</p> <p>Which is equivalent to the expression below?</p> |
| Geometry and Measurement | <p>Which is the closest to the circumference of the circle?</p> <p>How many milliliters are in N liters?</p> <p>What is the surface area of the prism?</p> <p>In a triangle, given two angles' degrees and $x-5$ for the third angle, what is the value of x?</p> <p>Triangle XYZ is similar to triangle RST. What is the length of ST?</p> <p>A cylinder is N inches tall. It has a radius of y inches. Which is the closest to the volume of the cylinder?</p> <p>This picture is a scale drawing of an ____. What is the height?</p> <p>Line l intersects parallel lines m and n as shown. Which list contains all the angles that are congruent to angle 1?</p> <p>Which drawing represents the top view of this solid?</p> <p>KLMN is an isosceles trapezoid. The perimeter is 32cm. What is the area?</p> |