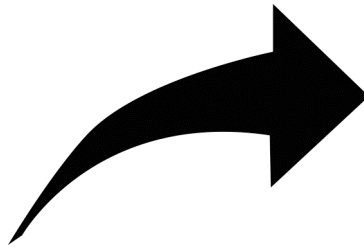


# ISAT Essentials



## Core Priorities for Grade 5

Center for Urban Education  
<http://teacher.depaul.edu>

*This guide includes test specifications from ISBE. Those specifications and additional ISAT preparation materials are available at [isbe.net](http://isbe.net).*

## 5<sup>th</sup> Grade READING

### **Vocabulary Challenges**

*Determine word meaning from context, structure, base word*

### **Vocabulary Questions—Stems based on ISAT samples**

- Which is a synonym for the word \_\_\_\_\_ in paragraph 7?
- Which is an example of a simile?
- Read this sentence from paragraph n. ... What does the word \_\_\_\_ mean?
- What is the meaning of the word \_\_\_\_\_?
- Which of these is a synonym of \_\_\_\_\_ as used in the sentence below?

### **Interpret Poems**

#### **Challenging Questions Based on ISAT Samples**

- Which is a synonym for the word \_\_\_\_\_ in the poem?
- Which is an example of a simile?
- What is the most likely reason the author wrote this poem?
- Which shows an example of onomatopoeia?
- What would be another good title for this poem?
- Which is a synonym for the word \_\_\_\_\_ in the poem?
- What is the most likely reason the author wrote this poem?
- Which shows an example of onomatopoeia?
- What would be another good title for this poem?

## **Fiction**

Analyze questions—what kind of question is it; how do I answer it?

- Infer meaning of word from context
- Infer cause-effect, motive, predictions
- Summarize
- Infer the Main Idea or Theme of a story or fable
- Analyze: genre; compare/contrast
- Infer: character traits, setting, plot, motive, prediction, main idea/theme, meaning of word from context
- Evaluate: author's techniques

## **Challenging Questions Based on ISAT Samples**

- In paragraph *n*, what event causes \_\_\_\_\_ to \_\_\_\_\_?
- Read this sentence from paragraph *n*. ... What does the word \_\_\_\_\_ mean?
- What happened after \_\_\_\_\_?
- What happened before \_\_\_\_\_?
- What is the genre of the passage?
- What is the main purpose of the first paragraph?
- What is the meaning of the word \_\_\_\_\_?
- What is the most likely reason the author wrote this passage?
- What is the theme of the passage?
- What is the turning point in the story?
- What is X's biggest problem in the story?
- What lesson can readers learn from this story?
- What would be another good title for the passage?
- Which detail in the selection shows that ...?
- Which of these statements is a main idea?
- Which of these best describes \_\_\_\_\_?
- Which of these is a synonym of \_\_\_\_\_ as used in the sentence below?
- Which term best defines this passage?
- Why did \_\_\_\_\_ do \_\_\_\_\_?

## **Extended Response Examples from ISAT samples**

- Why would people want to .....? Use information from the story and your own ideas and conclusions to support your answer.
- What conclusions can someone draw about \_\_\_\_\_ based on this passage?
- What problem did they solve? How is it like a problem in real life?

## **Non-Fiction**

*Analyze questions and answers—how do I choose the most important information; how do I choose the best answer?*

- Infer meaning from context*
- Identify fact/opinion*
- Summarize—evaluate the information and decide what is important*
- Identify the Main Idea and evaluate the importance of information to support it*
- Infer meaning from context*
- Analyze: compare/contrast; fact/opinion*
- Infer meaning of word from context.*

## **Challenging Questions Based on ISAT Samples**

- After reading the title, what should you expect to learn from this selection?
- Paragraph x of this selection is mainly about \_\_\_\_.
- Read this sentence from paragraph n. ... What does the word \_\_\_\_ mean?
- To understand more about \_\_\_\_, the reader should ask \_\_\_\_
- What does the prefix \_\_\_\_ mean?
- What is an opinion from the passage?
- What is the base word for \_\_\_\_?
- What is the main purpose of the first paragraph?
- What is the meaning of the word \_\_\_\_?
- What is the most likely reason the author wrote this passage?
- What would be another good title for this passage?
- Which detail in the selection shows that ...?
- Which is a synonym for the word \_\_\_\_ in paragraph n?
- Which of these statements is a main idea of \_\_\_\_?
- Which of these is a synonym of \_\_\_\_ as used in the sentence below?
- Which term best describes this passage?
- Why does the writer include this information?

## **Extended Response Example from ISAT samples**

*What conclusions can someone draw about \_\_\_\_\_ based on this passage?*

## FIFTH GRADE MATH PRIORITIES

Priorities identified through the ISBE ISAT online resources and CPS Learning Targets  
<http://www.chicagoteachingandlearning.org/component/content/article/235-learning-targets.html>

**Problem Solving** Students need to be able to...

- Solve problems in each of these areas of math.
- Solve problems using number relationships
- Use ratios to describe problem situations
- Show the steps they take
- Explain the reasons for their choices of strategies.

Math Content	Examples of Questions from ISAT Sample
<p><b><i>number sense and operations</i></b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> commutative</li> <li><input type="checkbox"/> compare and order numbers</li> <li><input type="checkbox"/> decimals</li> <li><input type="checkbox"/> denominator</li> <li><input type="checkbox"/> distributive</li> <li><input type="checkbox"/> equals</li> <li><input type="checkbox"/> equivalent forms of simple fractions</li> <li><input type="checkbox"/> equivalent representations of fractions and decimals</li> <li><input type="checkbox"/> estimate</li> <li><input type="checkbox"/> formula</li> <li><input type="checkbox"/> fractions</li> <li><input type="checkbox"/> greater than</li> <li><input type="checkbox"/> identity</li> <li><input type="checkbox"/> less than</li> <li><input type="checkbox"/> monetary units</li> <li><input type="checkbox"/> number line</li> <li><input type="checkbox"/> numerator</li> <li><input type="checkbox"/> order of operations</li> <li><input type="checkbox"/> percents</li> <li><input type="checkbox"/> proportional reasoning</li> <li><input type="checkbox"/> value</li> </ul>	<ul style="list-style-type: none"> <li>• A school has fifty teachers. Six out of every ten teachers have a pet. How many teachers have a pet?</li> <li>• Anish went to sleep at 9:00 pm and woke up at 6:30 am. How long did he sleep? (Note: also requires fraction knowledge.)</li> <li>• The drawing below is an input-output machine. The input is 5. What is the output (add 7, subtract 3).</li> <li>• Tim's mother put these cookies on a plate. Tim takes a cookie without looking. Which will he most likely get? (Cookies of different colors on plate&gt;)</li> <li>• The spinner has 6 equal parts. What is the probability that the arrow will land in a space labeled with an odd number?</li> <li>• This graph shows daily temperatures for North Town. What is the difference in the average daily temperatures for Monday and Wednesday?</li> <li>• Beth recorded the highest temperature for seven days. 90, 87, 95, 93, 88, 88 degrees. What is the mean (average) temperature?</li> <li>• The table shows the area in square miles for 5 states. The total number of square miles for three states is 119,156. Which 3 states are in the total?</li> </ul>
<p><b><i>algebra</i></b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> equations</li> <li><input type="checkbox"/> expressions</li> <li><input type="checkbox"/> input-output tables</li> <li><input type="checkbox"/> inverse relations</li> <li><input type="checkbox"/> number sentences</li> <li><input type="checkbox"/> pattern problems</li> <li><input type="checkbox"/> represent mathematical situations using words, tables, graphs</li> <li><input type="checkbox"/> unknown quantities</li> </ul>	<ul style="list-style-type: none"> <li>• What is the value of the expression below when <math>M = 4</math>?</li> <li>• Mr. Smith is 36 years old. His son is 8 years old. Mrs. Smith is <math>n</math> years old. Their three ages added together equals 77. Which correctly represents this information?</li> <li>• Brandon weighs 58 pounds. Nate weighs less than Brandon. If Nate weighs <math>n</math> pounds, which of these is true?</li> </ul>

Math Content	• Examples of Questions from ISAT Sample
<p><b>geometry and measurement</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 2-dimensional properties</li> <li><input type="checkbox"/> 2-dimensional shapes</li> <li><input type="checkbox"/> 3-dimensional properties</li> <li><input type="checkbox"/> 3-dimensional shapes</li> <li><input type="checkbox"/> angles</li> <li><input type="checkbox"/> angles—acute, obtuse, right, straight</li> <li><input type="checkbox"/> area</li> <li><input type="checkbox"/> capacity/volume</li> <li><input type="checkbox"/> Celsius, Fahrenheit</li> <li><input type="checkbox"/> congruence</li> <li><input type="checkbox"/> coordinate system</li> <li><input type="checkbox"/> cube</li> <li><input type="checkbox"/> cylinder</li> <li><input type="checkbox"/> diameter</li> <li><input type="checkbox"/> equilateral triangle</li> <li><input type="checkbox"/> estimate</li> <li><input type="checkbox"/> height</li> <li><input type="checkbox"/> hexagon</li> <li><input type="checkbox"/> intersecting lines</li> <li><input type="checkbox"/> isosceles triangle</li> <li><input type="checkbox"/> length</li> <li><input type="checkbox"/> line segments</li> <li><input type="checkbox"/> lines of symmetry</li> <li><input type="checkbox"/> mass/weight</li> <li><input type="checkbox"/> money</li> <li><input type="checkbox"/> non-standard unit</li> <li><input type="checkbox"/> parallel</li> <li><input type="checkbox"/> perimeter</li> <li><input type="checkbox"/> perimeter</li> <li><input type="checkbox"/> perpendicular lines</li> <li><input type="checkbox"/> polygon</li> <li><input type="checkbox"/> ray</li> <li><input type="checkbox"/> reflection/flips</li> <li><input type="checkbox"/> rotations/turns</li> <li><input type="checkbox"/> scale</li> <li><input type="checkbox"/> sphere</li> <li><input type="checkbox"/> translation/slides</li> <li><input type="checkbox"/> vertex, vertices</li> </ul>	<ul style="list-style-type: none"> <li>• What is the perimeter of this figure?</li> <li>• Which streets (on a diagram) do not intersect?</li> <li>• What type of angle is made by the hands of the clock?</li> <li>• Which two figures look congruent?</li> <li>• The dimensions of a rectangular prism are shown below. What is the volume of this prism? (Volume = l x w x h)</li> <li>• Which is true about the prism (answers include intersects, parallel, perpendicular lines)</li> <li>• Use your centimeter ruler to answer this question. Which is closest to the perimeter of this triangle?</li> <li>• What is the distance from point G to point H (on a number line).</li> <li>• On Todd's map, 1 inch = 200 miles. It is <math>5\frac{1}{4}</math> inches from Todd's house to his friend's house on the map. How many miles it is from Todd's house to his friend's house?</li> </ul>

<b>Math Content</b>	<b>Examples of Questions from ISAT Sample</b>
<p><b><i>data analysis and probability</i></b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> chart</li> <li><input type="checkbox"/> circle graph</li> <li><input type="checkbox"/> graph</li> <li><input type="checkbox"/> line graph</li> <li><input type="checkbox"/> line plot</li> <li><input type="checkbox"/> mean/average</li> <li><input type="checkbox"/> median</li> <li><input type="checkbox"/> mode</li> <li><input type="checkbox"/> pattern</li> <li><input type="checkbox"/> predict</li> <li><input type="checkbox"/> probability and counting principles</li> <li><input type="checkbox"/> range</li> <li><input type="checkbox"/> table</li> <li><input type="checkbox"/> tally, tally chart</li> <li><input type="checkbox"/> Venn diagram</li> </ul>	<ul style="list-style-type: none"> <li>• This graph shows daily temperatures for North Town. What is the difference in the average daily temperatures for Monday and Wednesday?</li> <li>• Beth recorded the highest temperature for seven days. 90, 87, 95, 93, 88, 88 degrees. What is the mean (average) temperature?</li> <li>• The table shows the area in square miles for 5 states. The total number of square miles for three states is 119,156. Which 3 states are in the total?</li> </ul>