NWEA MAP (6th-8th Grade)

Math Goals Performance

Which is $\sqrt{0.64}$?

- A. 0.008
- B. 0.08
- ✓C. 0.8
- D. 8

$0.32 \div 8 =$

- A. 4.3
- B. 0.15
- ✓C. 0.04
- D. 0.4
- E. 43.75
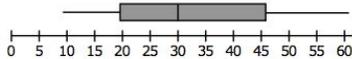
Evaluate $gh - b$ if $g = 4$, $h = 9$, $b = 12$.

- A. 48
- B. 37
- C. 25
- ✓D. 24
- E. 1

Students at a middle school built a model of their school. The school is 700 ft long and 500 ft wide.

If the students used a scale of 10 ft = 1 in., what are the dimensions of the model?

- A. 70 ft by 50 ft
- B. 70 ft by 50 in.
- C. 7 ft by 50 ft
- ✓D. 70 in. by 50 in.
- E. 7 in. by 5 in.

Look at the box-and-whisker plot.

Which number represents the median of the data?

- A. 20
- ✓B. 30
- C. 32.5
- D. 35
- E. 45

Number Sense
Skills include writing mixed numbers as improper fractions and improper fractions as mixed numbers; comparing and ordering fractions; expressing the equivalent form of a fraction, decimal, and/or percent; ordering integers on a number line; and recognizing characteristics of odd and even numbers.

Computation
Skills include adding, subtracting, multiplying, and dividing whole numbers, fractions, and decimals; and solving problems involving rates and unit price.

Algebra and Functions
Skills include solving 2-step open sentences with missing factors; locating the origin on a coordinate grid; and extending, or completing, growing patterns defined by equations or number facts.

Geometry and Measurement
Skills include solving difficult problems involving elapsed time with the conversion of hours; determining an appropriate scale for representing a distance on a map; solving problems involving the perimeter of squares, rectangles, or triangles; finding the perimeter of a polygon using a formula; determining a diameter, given the radius, and vice versa; estimating and finding volume of a figure using cubic units; identifying the number of degrees in a circle; defining similarity; using similar figures to construct ratios and solve for a missing side; and identifying geometric transformations (rotations, translations, reflections).

Data Analysis, Statistics and Probability
Skills include interpreting data given in circle graphs to solve simple problems (with percents), reading and interpreting data in scatter and line plots, determining the average (mean) and the middle value (median) from a simple set of data, describing a trend in the data, determining all possible outcomes, determining probability from a real-world situation with the number of possible outcomes given, and determining the number of possible combinations of given items.

Reading Goals Performance

Read the passage.

Many years ago, a young man named Takoda decided to go on foot to Dark Mountain, a three-day journey from his village. Two days into his journey, he paused for nourishment in a narrow valley. *(passage continues)*

How does the setting contribute to Takoda's main problem in the story?

1. He is unable to see clearly through dust from the valley floor.
2. He is unable to find shelter on the valley floor from threatening weather.
3. The valley does not provide him with the nourishment he needs for his journey.
✓ 4. The valley does not provide him with an easy way to avoid the buffalo stampede.

Read the report excerpt.

Changes in climate have also been manifested in altered precipitation patterns. Over the last century, the amount of precipitation has increased significantly across eastern parts of North America. *(passage continues)*

(from "Adaptation Options for Climate-Sensitive Ecosystems and Resources" by the U.S. Environmental Protection Agency)

Which feature of this text most assures the validity of the information?

✓ 1. the use of citations
2. the vocabulary
3. the use of percents
4. the author's tone

Read the sentence and dictionary entry.

The lives saved when the volcano exploded <u>vindicated</u> the expensive early warning system.

vindicate (**vin**-di-keyt) *v.*

1. to clear from an accusation
2. to justify by evidence or argument
3. to defend against opposition
4. to claim for oneself or another

Which definition of <u>vindicate</u> is used in the sentence above?

1. definition 1   3. definition 3
✓ 2. definition 2   4. definition 4

Literature

Skills include comparing settings, analyzing events important to plot development, assessing character development, identifying the theme in a literary text, inferring the conflict, identifying the sequence of events, and evaluating the author's viewpoint or attitude in literary text.

Nonfiction

Skills include summarizing, analyzing passages, rephrasing the main idea, speculating the cause for a given real-life effect, drawing conclusions, identifying facts and opinions, identifying the sequence of events, inferring the author's specific purpose, evaluating the author's viewpoint or attitude, and identifying features of charts in informational text.

Vocabulary

Skills include selecting an antonym or synonym for a given word in a sentence, classifying words that belong in a given category, using words to describe a picture, determining the meaning of a word based on context and sentence structure, identifying a homophone to complete a given sentence, matching a definition to a word with a prefix or suffix in a given sentence, locating information in a glossary, understanding and interpreting a word from a passage that suggests a feeling, analyzing literary text to determine the author's mood, and analyzing the meaning of figurative language and descriptive language.

Lexile Range

The Lexile Framework is a scientific way to match readers with text using the same scale. Recognized as the best way to match readers with appropriate text, Lexile measures connect learners of all ages with resources at the right level of challenge. A student's Lexile range can be used to identify appropriate, challenging books, periodicals, and other reading materials. See more information at
https://lexile.com/about-lexile/lexile-overview/lexile-infographic/.