

# Math Diagnostic Assessment for Wellness Wonders



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**Assessment Title:** Math Diagnostic Assessment  
**Assessment Form:** Diagnostic  
**Type of Assessment:** Performance Assessment, Constructed Response,  
and Selected Response

**Duration:** 30 minutes

**Standard (s) Assessed:** MA.E.3.2.1.3.1, MA.E.3.2.1.3.2, MA.E.3.2.1.3.3, Information Managers, and Critical and Creative Thinkers

**Description of Assessment Activity:** Students are given a scenario and asked to design a question for a survey, create a pictograph using the data presented, and explain the results from the survey data.

**Teacher Directions:**

1. Download and make copies of the Math Diagnostic Assessment.
2. Distribute the assessment to students.
3. Explain that this is a low-stakes assessment. Students will not receive a grade. It is OK if they do not know the answer. You will use the results to guide instruction for the unit.
4. Tell students to write their name and today's date at the top of the first page.
5. Read each assessment item and allow time for students to respond.
6. Collect the papers when all students are finished.
7. Evaluate the assessment using the provided Math Diagnostic Assessment Key.

Note: There are three diagnostic assessments for this unit. They include a KWL diagnostic, a language arts diagnostic, and a math diagnostic. To minimize student fatigue, the teacher might consider beginning the KWL and language arts diagnostics two days in advance and conducting one diagnostic each day. The math diagnostic is not administered until Day 3 of the unit.

**Student Directions:**

1. Write your name and today's date at the top of the first page.
2. Listen as I read the first item to you. (Read the first item.)
3. Mark your answer. (Allow time for students to mark their answer.)
4. Listen as I read the next item to you. (Read the second item.)
5. Complete your answer. (Allow time for students to respond.)
6. Listen as I read the third item. (Read the third item.)
7. Mark your answer. (Allow time for student responses.)

**Scoring Method and Criteria:**

A Diagnostic Math Assessment Key is provided. The assessment measures student ability to design appropriate questions for a survey, create a pictograph to present data from a given survey, and explain the results from the data of a given survey.

Math Diagnostic Assessment  
Wellness Wonders

Name \_\_\_\_\_ Date \_\_\_\_\_

1. Mrs. Johnson's class is learning about health. The class wants to conduct surveys to find out about students' milk drinking habits. What would be some good **questions** for the students to ask when they conduct the surveys?

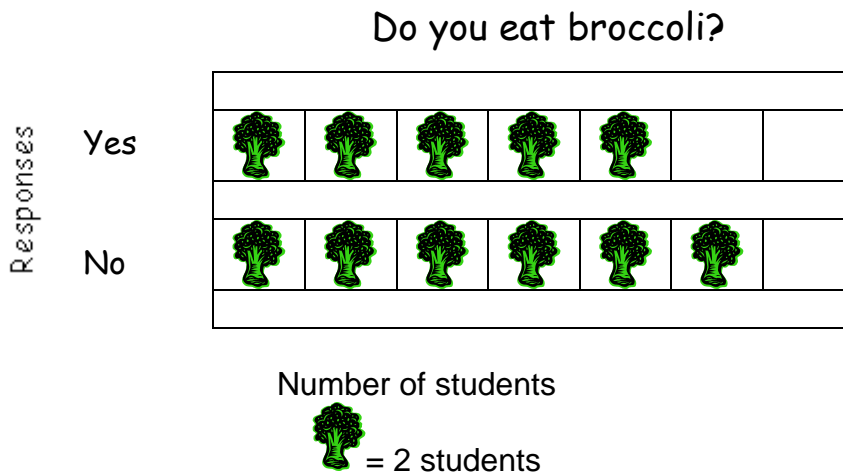
2. Mr. Smith's class is learning about health, also. They did a survey to find out how many students eat broccoli. They found that 10 students eat broccoli and 12 students do not. In the space below, draw a **pictograph** to show the results of the survey.

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3. Based on the data in question 2, what do you know about the students in Mr. Smith's class?
- a) Everyone eats broccoli.
  - b) Most students eat broccoli.
  - c) More students do not eat broccoli.

## Math Diagnostic Assessment Key

1. Accept all reasonable answers. Ex. - Do you drink 4 or more glasses of milk a day? Do you drink whole milk or skim milk? Do you like white milk or chocolate milk?
2. Accept all reasonable representations. Student graphs should include a title, labels for both axes, correct representation of the data on the graph, and a key for picture symbol representation.



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