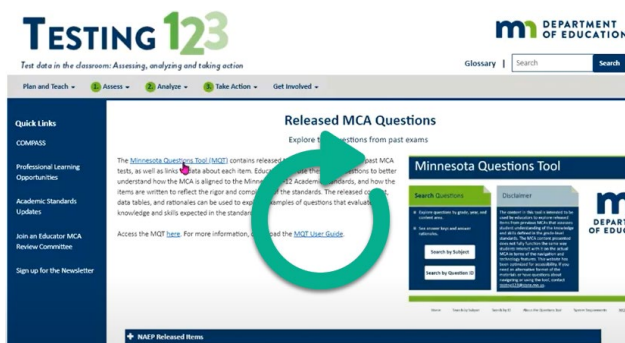


## Minnesota Questions Tool with Released MCA Items

The Minnesota Department of Education (MDE) released the [Minnesota Questions Tool \(MQT\)](#) in the summer of 2022. This tool contains over 1,600 items that were previously administered on the Mathematics MCAs. Grades 3–8 each have over 200 items available for teachers to use. Grade 11 currently has 66 items available, and we are working to release more high school items in 2023.

### How to use the MQT

Here is a [silent video showing how to navigate the steps explained below](#).



Here is how to access items in the MQT. Go to <https://public.education.mn.gov/nqt/> and select **Search by Subject**.


# Minnesota Questions Tool

### Search Questions

- Explore questions by grade, year, and content area.
- See answer keys and answer rationales.

### Disclaimer

The content in this tool is intended to be used by educators to explore released items from previous MCAs that assesses student understanding of the knowledge and skills defined in the grade-level standards. The MCA content presented does not fully function the same way students interact with it on the actual MCA in terms of the navigation and technology features. This website has been optimized for accessibility. If you need an alternative format of the materials or have questions about navigating or using the tool, contact [testing123@state.mn.us](mailto:testing123@state.mn.us).



TESTING 123

🏠 Home
🔍 Search by Subject
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📧 System Requirements
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Then select a **Subject** (we recommend **Mathematics**) and the **Grade(s)** you are interested in searching. After that you have options to select specific math **Strand**, **Question Types**, and/or **DOK (Depth of Knowledge) Levels**. (The **Years** option just indicates the year the item was released and is likely not helpful for your search.) Then select the **Search** button.

**MQT HOME** Search by Question ID **Help**

### Search Questions

Search by subject and grade below, or [search by question ID](#).

#### Subject and Grade Search

**Subject:**  **Grade:**  Grade 3  Grade 4  Grade 5  Grade 6  Grade 7  Grade 8  Grade 11

**Get Question Count** **Questions available: 1677**

**Search** **Cancel** **Reset**

Select any of the available options below to further narrow your search results:

**Strand or Substrand**

- Math
  - Number & Operation
  - Algebra
  - Geometry and Measurement
  - Data Analysis
  - Data Analysis & Probability

**Question Types**

- All Types
  - MC: Multiple Choice
  - BG: BG is Bar Graph
  - CHS: CHS is Complex Hotspot
  - GGM: GGM is Graphic Gap Match
  - GM: GM is Gap Match
  - IC: IC is Inline Choice
  - MR: MR is Multiple Response
  - NL: NL is Number Line
  - ORDER: ORDER is Order
  - PG: PG is Point Graph
  - SLD: SLD is Interactive Slider
  - TEX: TEX is Text Entry/fill-in-the-blank

**DOK (Depth of Knowledge) Levels**

- All DOK Levels
  - I
  - II
  - III

**Years**

- All Years
  - 2022
  - 2019
  - 2018
  - 2017

From there a list of items appear that can be sorted by various characteristics such as SSB (Strand, Standard, Benchmark). Select **Show Question** to see an item.

**MQT HOME** Search by Subject Search by Question ID **Help**

To view an item, select an item in the table below, and then select the "Show Question" button. If you're using a keyboard to navigate this page, tab into the table. Then, use the arrow keys to navigate the cells. Use the space bar to select an item.

To update the search criteria, select the "Back" link to go back to the Search Options page, and change the search criteria.

[← Back](#)

**Search Results (254):** Subject: Mathematics, Grade: 6, Years: All  
Content Classifications: All, Types: All, DOK (Depth of Knowledge) Levels: All

Number	Question ID	Description	Strand or Substrand	SSB ▲	Grade	Year	DOK	Type
1	263226	Calculator	Number & Operation	6.1.1.1	06	2022	I	MC
2	263229	Calculator	Number & Operation	6.1.1.1	06	2022	I	MC
3	260111	Calculator	Number & Operation	6.1.1.1	06	2022	I	MC
4	262028	Calculator	Number & Operation	6.1.1.1	06	2022	I	MC
5	264500	Calculator	Number & Operation	6.1.1.1	06	2017	I	CHS

[Show Question](#) 1 of 254

The **Question** tab shows the item. (Note: The MQT shows the mathematical content of the item, although the layout, functionality, and accommodations available are different than on the actual MCA.)

**Question** Key/Scoring Guide Performance Data

Show: Attributes Answer [Print](#)

A number line is shown.

Which letter represents  $3\frac{3}{8}$  on the number line?

- A. M
- B. N
- C. O
- D. P

Question ID: 2022-6M #4 262028

Selecting the **Key/Scoring Guide** tab shows the correct answer as well as possible reasons why someone might select the other distractors on multiple choice items.

Question    **Key/Scoring Guide**    Performance Data

Print

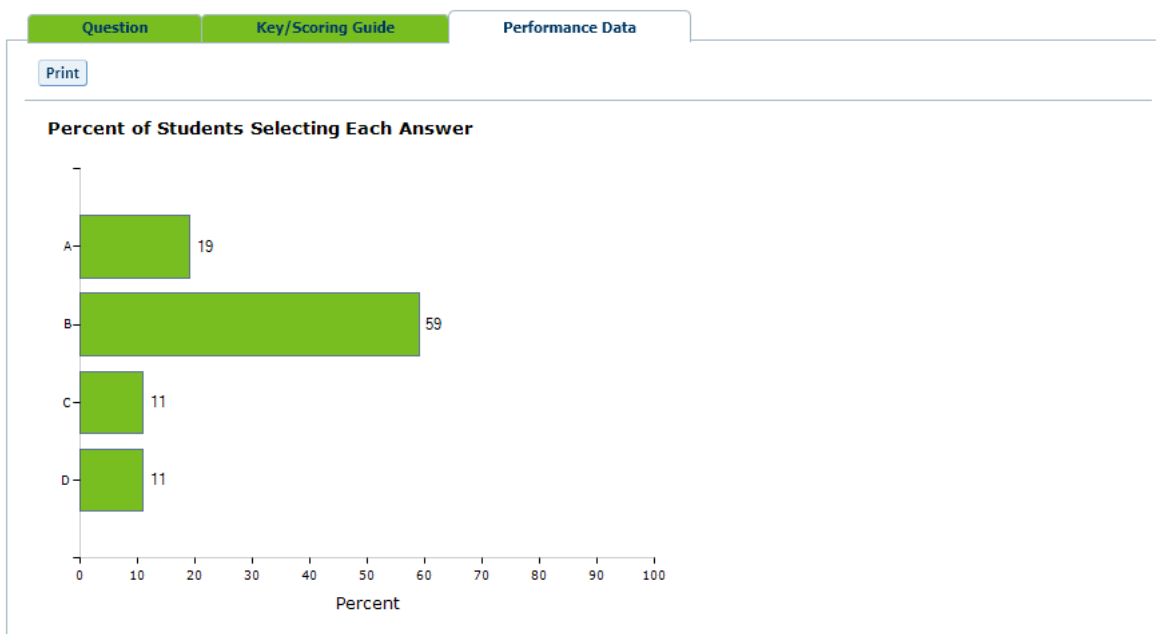
The correct answer is:  
B. N

**Solution:**

RATIONALE A	Chose a point 3 tick marks to the left of 4. ( $1/4$ )
RATIONALE B	Correct. Point is halfway between $1/4$ and $1/2$ .
RATIONALE C	Chose a point halfway between $1/2$ and $3/4$ . ( $5/8$ )
RATIONALE D	Chose a point 3 tick marks to the right of 3. ( $3/4$ )

Question ID: 2022-6M #4 262028

Selecting the **Performance Data** tab shows the percent of students that correctly answered this item along with other incorrect responses for multiple choice items.



## Some questions we have received about the released MCA items





- “Did you just release only the *bad* items?” No. The released items were perfectly valid as administered on previous years’ MCAs. Committees of Minnesota math teachers edited and approved all items for use on the MCAs. Items were selected for release for educators to better understand how the MCA is

aligned to the Minnesota K–12 Academic Standards, and how the items are written to reflect the rigor and complexity of the standards.

- “Are these released items representative of all items on the MCA?” The released items are only a subset of the type of content students encounter on the MCA. They do not represent the totality of the content assessed. The released content, data tables, and rationales can be used to explore examples of questions that evaluate the knowledge and skills expected in the standards.

## How to make use of the MQT tool

- Look at common misconceptions students have when responding to multiple choice questions with other educators.
- Have students provide the rationales for the incorrect answers (provide the correct answer and ask for an error analysis). This can be done with current or previous grade-level items to teach a concept and “accelerate learning.”
- Review the Benchmark Achievement Level Descriptors (<https://testing123.education.mn.gov/test/plan/success/>) and access the examples provided in the MQT tool. We encourage you to see [our previous MathBits article on the Benchmark Achievement Level Descriptors](#).

Benchmark	Does Not Meet	Partially Meets	Meets	Exceeds
	<p>A typical student at this level of mathematics succeeds at few of the most fundamental mathematics skills of the Minnesota Academic Standards.</p> <p>Some of the skills typically demonstrated may include:</p>	<p>A typical student at this level of mathematics partially meets the mathematics skills of the Minnesota Academic Standards.</p> <p>Some of the skills typically demonstrated may include:</p>	<p>A typical student at this level of mathematics meets the mathematics skills of the Minnesota Academic Standards.</p> <p>Some of the skills typically demonstrated may include:</p>	<p>A typical student at this level of mathematics exceeds the mathematics skills of the Minnesota Academic Standards.</p> <p>Some of the skills typically demonstrated may include:</p>
<p><b>6.1.1.4</b> Determine equivalences among fractions, decimals and percents; select among these representations to solve problems.</p>	<p>Identifies and writes the decimal representation of a 2-digit percent</p> <p><a href="#">Released Examples:</a> 44230, 263755</p> 	<p>Identifies and writes the percent or decimal equivalent of a given fraction</p> <p>When given a fractional amount, identifies the complement represented as a percent</p> <p>Adds simple percents and fractions when identifying the total percent of something</p> <p><a href="#">Released Examples:</a> 44136, 263779</p> 	<p>Identifies multiple representations of common percents</p> <p>Represents numbers as fractions (proper, improper, mixed, simplified and not simplified), decimals (including repeating decimals), and percents (including 1-digit percents)</p> <p>Solves one- and two-step problems involving percents and represents the answer as a fraction or a decimal</p> <p><a href="#">Released Examples:</a> 264927, 263753</p> 	<p>Solves multi-step problems with fractions and represents the answer in various representations</p> <p>Consistently compares and represents numbers (including values less than 0.1) in various forms</p> <p><a href="#">Released Example:</a> 265611</p> 

We welcome your questions about this or other math related topics. Please contact us at the following addresses.

[Angela Hochstetter](#), Mathematics Assessment Specialist ([angela.hochstetter@state.mn.us](mailto:angela.hochstetter@state.mn.us))

[Michael Huberty](#), Mathematics Assessment Specialist ([michael.huberty@state.mn.us](mailto:michael.huberty@state.mn.us))