

# MTM STAAR QUESTION BANK



40+ questions that reflect the new question types

24

The table shows the coordinates of the vertices of quadrilateral  $ABCD$ .

$x$	$y$
0	-1
2	3
5	3
5	-1

Quadrilateral  $ABCD$  is dilated by a scale factor of  $\frac{4}{5}$  with the origin as the center of dilation to create quadrilateral  $A'B'C'D'$ . Write a rule that describes the dilation that is applied to quadrilateral  $ABCD$  to create quadrilateral  $A'B'C'D'$ .

Move the correct answer to each box. Each answer may be used more than once. Not all answers will be used.

$x + \frac{4}{5}$

$\frac{4}{5}x$

$\frac{5}{4}x$

$y + \frac{4}{5}$

$\frac{4}{5}y$

$\frac{5}{4}y$

Quadrilateral  $ABCD$  was dilated according to the rule  $(x, y) \rightarrow ( \quad , \quad )$ .

©Maneuvering the Middle LLC, 2022

new question types:

- ✓ equation editor
- ✓ graphing
- ✓ number line
- ✓ inline choice
- ✓ drag and drop
- ✓ hot spot
- ✓ multiselect
- ✓ match table grid

interactive features are for display only

41

Trent deposits \$2,125 into each of two savings accounts.

- Account  $W$  earns 3.25% annual simple interest.
- Account  $Y$  earns 3.25% interest compounded annually.
- Trent does not make any additional deposits or withdrawals.

Determine whether each statement is true or false based on the given account information.

Select the correct answer in each row.

Statement	True	False
Account $W$ will have a balance of approximately \$207.19 after 3 years.	<input type="checkbox"/>	<input type="checkbox"/>
Account $Y$ will have earned approximately \$368.50 in interest after 5 years.	<input type="checkbox"/>	<input type="checkbox"/>
After 10 years, Account $Y$ will earn approximately \$110.30 more in interest than Account $W$ will earn.	<input type="checkbox"/>	<input type="checkbox"/>

©Maneuvering the Middle LLC, 2022

# MTM STAAR QUESTION BANK



40+ questions that reflect the new question types

familiarize your students  
with the new question types

## MTM STAAR Question Bank TEACHER INSTRUCTIONS

8<sup>th</sup>  
GRADE

### WHAT'S INCLUDED

This 8<sup>th</sup> grade question bank was created to provide ready-to-go practice materials in order to review mathematical content and practice new question formats. The following files are included:

- **Question Bank:** This file contains a link to access the questions through Google Slides. The slides are designed to be projected in a whole class setting where the teacher and/or student can annotate on the slides.
- **Printable Questions:** This file includes the same practice questions as the question bank slides but is formatted as a half-sheet in order to provide a printable paper option for individual students.
- **Answer Keys:** This file is formatted with two practice questions per page with the correct answers shown. In situations where there is more than one possible answer, a sample answer is shown.

### HOW TO USE

This resource is designed for gradual use with a classroom of students. For example, each question might serve as a useful warm-up and/or exit ticket to incorporate regularly in the classroom. A suggested routine is outlined below:

1. Print and copy a question and cut into half sheets for each student. Project the corresponding question on the board.
2. Allow students 3-5 minutes to work through the given question.
3. Ask for students to share solutions, steps and strategies as you annotate on the board. Provide any instruction and clarification as needed.

For more information and specifics on utilizing the Maneuvering the Middle® STAAR Question Bank, please reference the training modules below.

After clicking the link below, enter password MTMPD2023 when prompted.



**Module 1:**  
Upcoming Changes to the  
STAAR Test

**Module 2:**  
The Purpose of the MTM  
Question Bank

**Module 3:**  
How to Use the Question  
Bank in Your Classroom

STAAR is a registered trademark of the Texas Education Agency. Maneuvering the Middle® is not affiliated with or sponsored by the Texas Education Agency or the State of Texas.

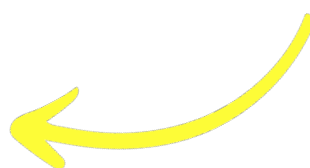
©Maneuvering the Middle LLC, 2022

# MTM STAAR QUESTION BANK



40+ questions that reflect the new question types

printable  
questions are  
formatted on  
half sheets



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

**26**

Pentagon  $RSTUV$  is shown on the coordinate grid and models the shape of home plate at a baseball park. Pentagon  $RSTUV$  will be dilated with the origin as the center of dilation to create pentagon  $R'S'T'U'V'$ . The vertex  $R'$  will be located at  $(9, 24)$ .

Choose the correct answer from each drop-down menu to complete the statements.

Pentagon  $R'S'T'U'V'$  is  to pentagon  $RSTUV$ .

Pentagon  $RSTUV$  was dilated according to the rule

$(x, y) \rightarrow$  .

©Maneuvering the Middle LLC, 2022

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

**26**

Pentagon  $RSTUV$  is shown on the coordinate grid and models the shape of home plate at a baseball park. Pentagon  $RSTUV$  will be dilated with the origin as the center of dilation to create pentagon  $R'S'T'U'V'$ . The vertex  $R'$  will be located at  $(9, 24)$ .

Choose the correct answer from each drop-down menu to complete the statements.

Pentagon  $R'S'T'U'V'$  is  to pentagon  $RSTUV$ .

Pentagon  $RSTUV$  was dilated according to the rule

$(x, y) \rightarrow$  .

©Maneuvering the Middle LLC, 2022

answer keys  
provided



## MTM STAAR Question Bank 8<sup>TH</sup> GRADE — ANSWER KEY

### 9 Answer Key (Graphing; 8.4B)

The Leona city bus system sells a 15-ride punch card for \$37.50. Create a graph that has a slope that represents the cost of each bus ride.

Select three points on the coordinate grid.

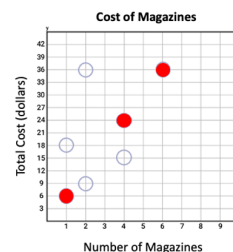
\*Students may choose any 3 of the points shown on the coordinate grid to represent this relationship.



### 10 Answer Key (Hot Spot; 8.4B)

The cost of 3 magazines at the checkout line of a grocery store is \$18. Each magazine has the same cost. Which three points represents this rate?

Select **THREE** correct answers.

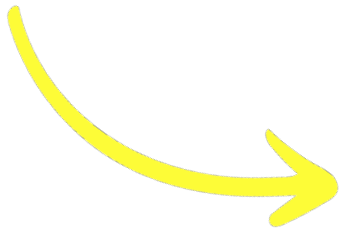


# MTM STAAR QUESTION BANK



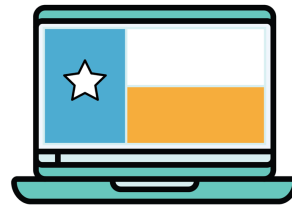
40+ questions that reflect the new question types

**3 training modules help you prepare your students and implement with success**



MODULE  
1

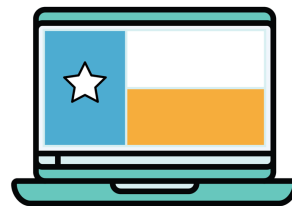
what upcoming changes to the STAAR test I should know about?



A MANEUVERING THE MIDDLE® TRAINING

MODULE  
2

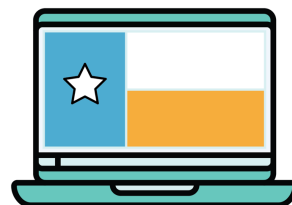
what is the purpose of the MTM question bank?



A MANEUVERING THE MIDDLE® TRAINING

MODULE  
3

how should I use the question bank in my classroom?



A MANEUVERING THE MIDDLE® TRAINING

# MTM STAAR QUESTION BANK



40+ questions that reflect the new question types

table of contents include:

- ✓ TEKS standard
- ✓ question type
- ✓ corresponding MTM unit

MTM STAAR Question Bank			
TEACHER INSTRUCTIONS			
8 <sup>th</sup> GRADE			
TABLE OF CONTENTS			
The following questions are included in the 8 <sup>th</sup> grade question bank. The standard assessed, question type utilized and corresponding Maneuvering the Middle® curriculum unit are noted.			
question	standard	question type	mtm unit
1	8.2B* Approximate the value of an irrational number, including $\pi$ and square roots of numbers less than 225, and locate that rational number approximation on a number line	Hot Spot	1: Real Number System
2	8.2D Order a set of real numbers arising from mathematical and real-world contexts	Drag and Drop	1: Real Number System
3	8.2D Order a set of real numbers arising from mathematical and real-world contexts	Inline Choice	1: Real Number System
4	8.2D Order a set of real numbers arising from mathematical and real-world contexts	Multiselect	1: Real Number System
5	8.8C Model and solve one-variable equations with variables on both sides of the equal sign that represent mathematical and real-world problems using rational number coefficients and constants	Equation Editor	2: Linear Equations
6	8.8C Model and solve one-variable equations with variables on both sides of the equal sign that represent mathematical and real-world problems using rational number coefficients and constants	Drag and Drop	2: Linear Equations
7	8.8C Model and solve one-variable equations with variables on both sides of the equal sign that represent mathematical and real-world problems using rational number coefficients and constants	Match Table Grid	2: Linear Equations
8	8.4B Graph proportional relationships, interpreting the unit rate as the slope of the line that models the relationship	Graphing	3: Linear Relationships
9	8.4B Graph proportional relationships, interpreting the unit rate as the slope of the line that models the relationship	Graphing	3: Linear Relationships
STAAR is a registered trademark of the Texas Education Agency. Maneuvering the Middle® is not affiliated with or sponsored by the Texas Education Agency or the State of Texas.			
©Maneuvering the Middle LLC, 2022			