PARCC Readiness

What ALL Administrators - Teachers - Parents - Students Must Know . . .

What does PARCC stand for?

The Partnership for Assessment of Readiness for College and Careers.

The Belief . . .

- Assessment should work as a tool for enhancing teaching and learning
- Fully aligned to the CCSS
- Ensure that every child is on a path to college and career readiness
- Provide parents and teachers with timely information to identify students who may be falling behind and need extra help

Required Assessments

- There are two required assessments set to deploy through PARCC for both mathematics and English Language Arts Literacy.

- What are they?

Performance Based Assessment

- Given after 75% of the school year
- Extended tasks, applications of concepts and skills
- ELA - Writing effectively when analyzing text; research simulation
- Math - Solving multi-step problems requiring abstract reasoning, precision, perseverance and strategic use of tools

End Of Year

- Given after 90% of the school year
- Innovative, short-answer items
- ELA - Reading comprehension
- Math - Short items that address both concepts and skills

Optional Assessments

- There are two optional assessments set to deploy through PARCC.

- What are they?

Optional Assessments (Non-Summative)

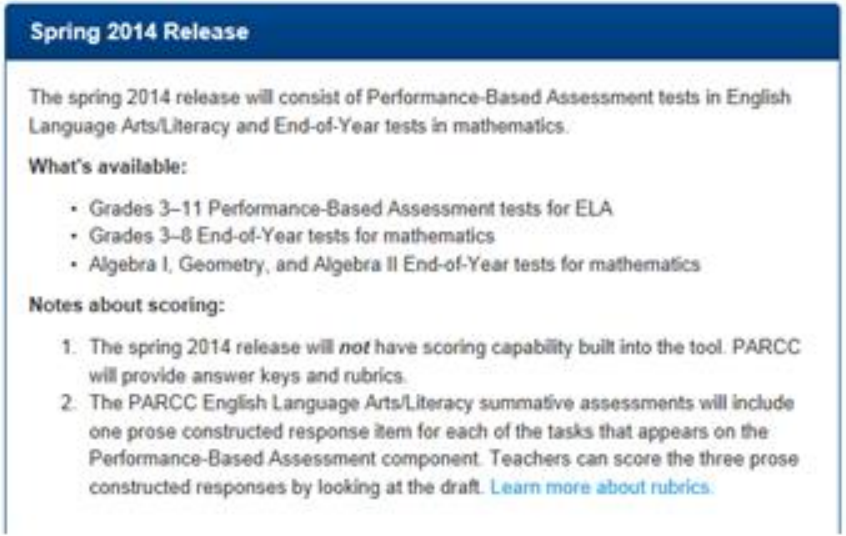
- Diagnostic Assessment
  - Flexible indicator of student knowledge and skills
  - Allows instruction, supports, and professional development to be tailored to improve student learning
- Mid-Year Assessment (Mirror PBA -50%)
  - Performance based items and tasks
  - Emphasis on hard to measure standards
  - Individual states may consider including as a core

Higher Expectations for PARCC

- ELA
  - Read sufficiently complex texts
  - Write effectively
  - Build and present knowledge through research
- Mathematics
  - Reason mathematically
  - Solve problems: content and mathematical practice
  - Model real world problems
  - Have fluency in mathematics

Important Information

- Spring Release Information . . .



Spring 2014 Release

The spring 2014 release will consist of Performance-Based Assessment tests in English Language Arts/Literacy and End-of-Year tests in mathematics.

What's available:

- Grades 3–11 Performance-Based Assessment tests for ELA
- Grades 3–8 End-of-Year tests for mathematics
- Algebra I, Geometry, and Algebra II End-of-Year tests for mathematics

Notes about scoring:

1. The spring 2014 release will ***not*** have scoring capability built into the tool. PARCC will provide answer keys and rubrics.
2. The PARCC English Language Arts/Literacy summative assessments will include one prose constructed response item for each of the tasks that appears on the Performance-Based Assessment component. Teachers can score the three prose constructed responses by looking at the draft. Learn more about rubrics.

Important Information

- Fall Release Information . . .

Fall 2014 Release

What's available:

- Grades 3–11 End-of-Year tests for ELA
- Grades 3–8 Performance-Based tests for mathematics
- Algebra I, Geometry, and Algebra II Performance-Based tests for mathematics

Notes about scoring:

1. The fall 2014 release will have scoring capability built into the tool. PARCC will also provide rubrics for the prose constructed responses.

Resources

- http://www.parcconline.org/resources
  - There are resources for educators, parents, and a link to the CCSS.
  - Parents
    - FAQ
    - Fact Sheet
    - PARCC Glossary
    - Overview PowerPoint
    - New Vision of Assessment Power Point

Resources

- Parent Resources
  - Expanding Access - A Parent’s Guide
  - PARCC Field Test
    - FAQ
    - PARCC Tech Prep Week
    - Sample Test Questions

Resources

- Educators
  - Sample Test Questions
  - Sample Items
  - K-12 Resources
  - PARCC Model Content Frameworks
  - Non-Summative Assessments
  - Educational Leader Cadres
  - Professional Learning Modules
  - Expanding Access - A Teacher’s Guide

Resources

- www.marlboro.k12.nj.us
  - Curriculum Tab
    - PARCC Important Information
      - PARCC End of Year Mathematics Explanation Videos narrated by Dr. Eric Hibbs, Superintendent

Tools Within PARCC

- The following slides highlight the tools that are available in the PARCC framework.

Exhibits

- On every test question (Grade 6-8) on the right side will be a folder labeled “Exhibits.”
- This will contain a reference sheet for you.

Click this once to make the assessment reference sheet appear!

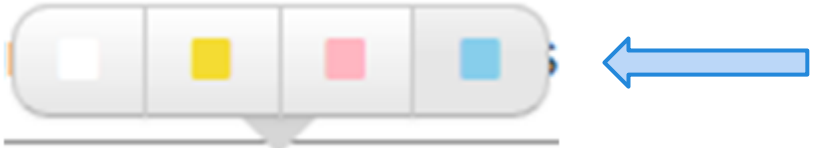
Exhibits

- Here is what it looks like . . .

- **This reference sheet will give you common conversions for you to use.**
- **For example, it will tell you that 1 inch = 2.54 centimeters.**
- **Please examine this reference sheet carefully to know what will be given to you to use.**
- **This will help you solve problems involving conversions.**

Highlighter

- If you “double-click” information in the test, a highlighter will open up. You can also highlight with your mouse.
- You will have the option of highlighting in yellow, pink, and blue. The white is an “unhighlighter.”



Highlighter

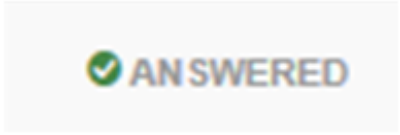
- The highlighter will allow you to highlight information you feel is important throughout the PARCC Assessments.

Review and Flag

- Click on the “Review” button in order to see all questions in your current section.
- You will see the status of the question.
  - This will tell you whether or not you answered it.
- You also will see if you “Flagged” the question.
  - On each individual question, you can hit the “Flag” button. You can do this so you remember to go back.

Review and Flag

- Make sure to really understand how this works.
- If you answer a question, this will appear in the "Status" section . . .

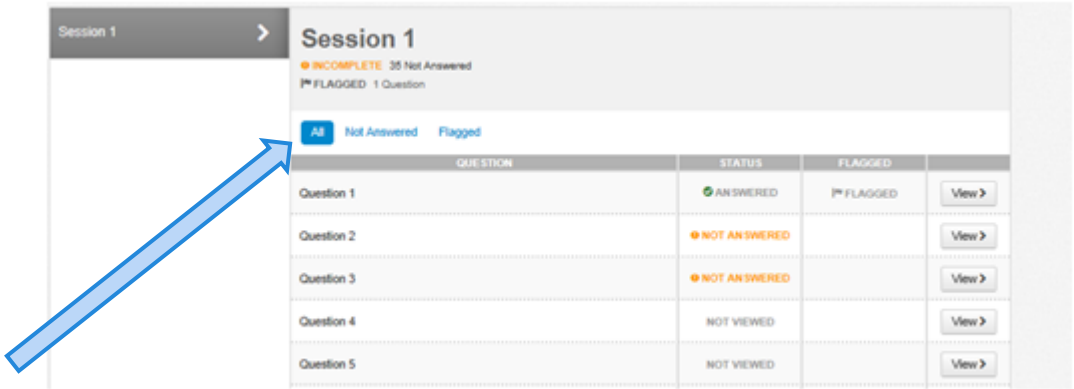


- If you viewed the question but didn't answer, this will appear in the "Status" section .

- If you did not view, then this will appear . . .

Review and Flag

- Overall Picture . . .



- Notice the three options
- - ANSWERED
- - NOT ANSWERED
- - NOT VIEWED
- Notice also the View button

- This will allow you to view and to navigate to each individual question from your section.

- Also notice you can toggle between three separate views. You can see . . .
  - All
  - Not Answered
  - Flagged

Review and Flag Goals

- Students must understand and be able to use the Review and Flag buttons seamlessly.
- At the end of every section, all students must review to ensure that all questions were answered.

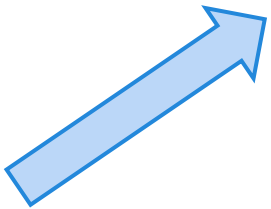
Vocabulary

- Pay attention to the the bolded vocabulary. It is your roadmap to success.

An expression is shown. $7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$

What is the expression written in exponential form?

Enter your expression in the space provided. Enter **only** your expression.



Directive Vocabulary

- The following directive vocabulary terms exist in the EOY sections. This is a comprehensive list pulling from Grade 3-8 for the End of Year Sample Tests released in the Spring of 2014..
- I give examples of different types of questions in Grades 3-8 EOY Assessments. (no duplicates)

Directive Vocabulary

- Enter your answer in the box.(G3Q1)
- Which two statements can be represented. (G3Q2)
- Select the three . . . (G3 Q3)
- Which two ways show how to find the value. (G3Q4)
- Which clock shows . . . (G3Q5)

Directive Vocabulary

- What is the total number of . . . How many more . . . (G3Q6)
- Drag and Drop the three . . . (G3Q7)
- Plot the point that shows . . . (G3Q8)
- Complete the picture graph to show how many . . . (G3Q9)
- Select the three statements that are true . . . (G3Q13)

Directive Vocabulary

- Which of these shows . . . Use these to find . . (G3Q15)
- Use the More of Fewer buttons as many times as needed to . . .Then shade by selecting the part or parts. (G3Q17)
- What is the length of the . . . (G3Q18)
- Which three statements can be represented . . . (G3Q22)

Directive Vocabulary

- Select the three shapes that always . . . (G3Q29)
- Which three comparisons are true? (G3Q30)
- Enter your answers in the boxes. (G3Q31)
- For each _____, drag and drop an X onto the line plot to show the length. (G3Q33)
- Which three figures each have . . . (G3Q36)

Directive Vocabulary

- Which expression could be used to find the value of . . . (G3Q38)
- Which statement about _____ is true? (G4Q1)
- Enter your answer in the space provided (G4Q3)
- Drag and drop the answers into the correct order. (G4Q8)

Directive Vocabulary

- Which two of these represent . . . Select the two correct answers. (G4Q15)
- Drag and drop the numbers and symbols into the correct order. (G4Q17)
- For each ____ pictures in the table, select the box for any statement that describes the ____. You may select more than one box for each figure. (G4Q18)

Directive Vocabulary

- Select the correct symbol from each drop-down menu to compare . . . (G4Q20)
- Select the three choices that are . . . (G4Q23)
- Select the correct word and number from each drop-down to complete the statement. (G4Q24)
- Which angle has a measure of ____? (G4Q26)

Directive Vocabulary

- Which two equations represent the statement? Select the two correct answers. (G4Q28)
- Which expression is equivalent to ____? (G4Q30)
- Select the correct symbol from each drop-down menu to complete the comparison. (G4Q31)

Directive Vocabulary

- Drag and drop each number that is a multiple of ____ into the box. (G4Q32)
- Place the fractions in order, from least to greatest. (G4Q34)
- Which two statements are true? (G5Q4)
- Drag and drop one number into each box. (G5Q6)
- Which explanation about figures is correct? (G5Q7)

Directive Vocabulary

- Enter your answer in the space provided. Enter only your fraction. (G5Q9)
- Drag and drop the names to complete the diagram that shows the relationship among the figures listed. Each category will be used only once. (G5Q13)
- Which equation shows how to find the ___? (G5Q17)

Directive Vocabulary

- For each sentence, select the option from the drop-down menu that correctly compares the values. (G5Q18)
- Drag and drop the expression that matches each statement into the correct box. Each expression may be used more than once or not at all. (G5Q24)

Directive Vocabulary

- Be sure to graph all three points. What is the coordinate pair that represents . . .? (G5Q26)
- Complete each conversion by dragging and dropping the correct number into the box. (G5Q28)
- Select a phrase from each drop-down to correctly complete each sentence. (G5Q29)

Directive Vocabulary

- Choose three statements that correctly describe . . . (G5Q32)
- Which statement about the corresponding terms in both Pattern A and Pattern B is always true? (G5Q33)
- Drag and drop the correct word or phrase to each row of the table to indicate whether the statement is true, false, or does not contain enough information. (G6Q2)

Directive Vocabulary

- Select all that apply . . . (G6Q4)
- Drag and drop the given rational numbers into the correct order on the number line from least to greatest. (G6Q5)
- Enter your answer in the space provided. Enter only your expression. (G6Q8)
- Create a histogram that represents the data. Adjust the size of the slider by dragging the top of the slider to the appropriate height. (G6Q10)

Directive Vocabulary

- Enter your answer in the space provided. Enter only your answer. (G6Q11)
- Which question is a statistical question? (G6Q12)
- What is the greatest common factor of 16 and 48? (G6Q13)
- Use the drop-down menus to complete this statement . . . (G6Q15)

Directive Vocabulary

- Select the point on the number line located at . . . (G6Q16)
- Be sure to place your final answer in the box. (G6Q21)
- Use the drop-down menus to create an equation that can be used to determine *t*, the price, in dollars, of 1 towel. (G6Q1 Calculator)

Directive Vocabulary

- On the coordinate grid, select the point that represents the number of . . . (G6Q3 Calculator)
- Use the drop-down menus to complete the sentence. (G6Q8 Calculator)
- What is the surface area, in square feet, of the . . . (G6Q12 Calculator)

Directive Vocabulary

- The mean of the lengths of the insects measured by the science class is (Choose), which is (Choose) than the mean length of adults of that type. (G6Q13 Calculator)
- Select each statement about the graph that is true. Select all that apply. (G7Q1)
- What is the constant of proportionality between x and y? Enter your answer as a decimal. (G7Q3)

Directive Vocabulary

- Select the correct number from each drop-down menu to complete the equation. (G7Q6)
- What was the value, in dollars, of the investment at the end of the month? Enter your answer in the box. (G7Q8)
- In which situation could the quotient of -24/3 be used to answer the question? (G7Q10)

Directive Vocabulary

- Solve each equation. Then, enter a number in each box to make this statement true . . . (G7Q11)
- Select an expression from each drop-down menu to make this statement true . . . (G7Q12)
- What is the area, in square inches, of the mirror? What is the combined area, in square inches, of the circular mirror and the frame? (G7Q5 Calculator)
- Select a choice from each drop-down menu to make this statement true . . . (G7Q6 Calculator)

Directive Vocabulary

- Based on _____, which statement best compares the number of ___ from the two ___? (G7Q7 Calculator)
- Select each box in the table that identifies ___ that could result from ___. (G7Q11 Calculator)

Directive Vocabulary

- Which statement best predicts how many times the digit ___ will appear among ___ results? (G7Q17 Calculator)
- Solve for x. Enter your answer in the space provided. Enter only your solution. (G8Q1)
- Select your answer. (G8Q2)
- Select each correct statement. (G8Q4)

Directive Vocabulary

- For each interval in the table, indicate whether the function is increasing, decreasing, or neither increasing nor decreasing over the interval. (G8Q6)
- Indicate whether each system of equations has no solution, one solution, or infinitely many solutions by selecting the correct cell in the table. Select one cell per column. (G8Q7)

Directive Vocabulary

- Which equation has both 4 and -4 as a possible value of y? (G8Q9)
- Which statement about this function must be true? (G8Q10)
- When the input of the function is ___, what is the output of the function? (G8Q14)
- Which of these most closely approximates a line of best fit for the data in the ___? (G8Q15)

Directive Vocabulary

- Classify each equation as defining y as a linear or non-linear function of x. Select one cell per column. (G8Q17)
- Select the point on the number line that best approximates the location of ___. (G8Q19)
- Based on the results of the survey, which statements are true? Select each correct statement. (G8Q3 Calculator)

Directive Vocabulary

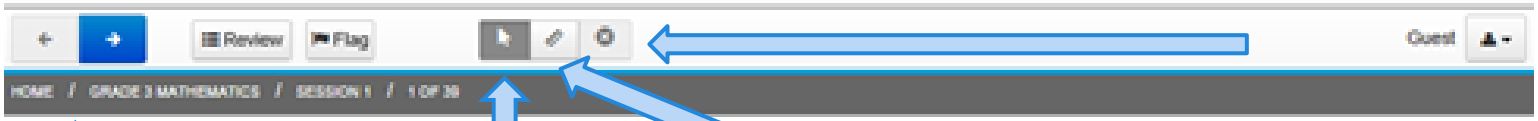
- Which statement when comparing the functions is true? (G8Q5 Calculator)
- Which statements are true? Select all that apply. (G8Q6 Calculator)
- Select a place on the grid to plot each point. (G8Q7 Calculator)
- Order the linear functions on a rate of change, from least to greatest. (G8Q10 Calculator)

Directive Vocabulary

- To graph a line, select two points on the coordinate plane. A line will be drawn through the points. (G8Q12 Calculator)
- Which numbers represent the number Liz saw? (G8Q13 Calculator)

Grade 3 Toolbar Always at the Top

- The EOY Grade 3 examination has several tools that students must be able to use and manipulate effectively. Here is a picture of the top toolbar in 3rd grade.



This is an answer eliminator.

These two buttons navigate to the next and previous question

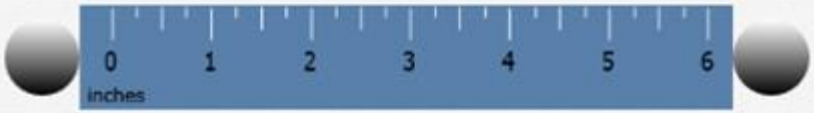
This is the pointer. It will allow you to click on multiple choice answers and such.

This is a Quarter Inch Ruler

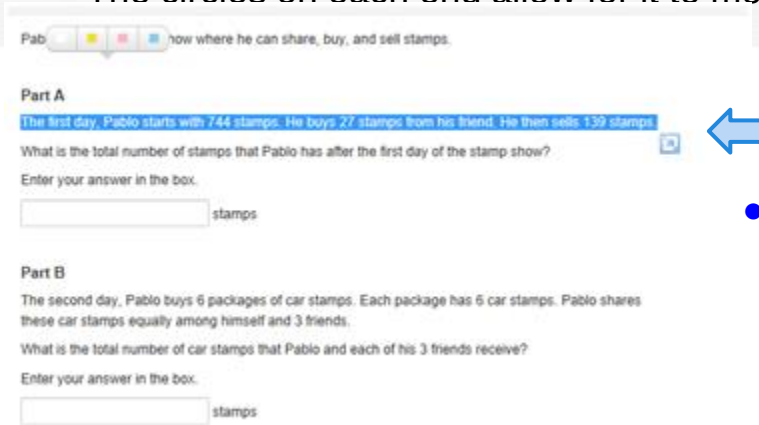
Grade 3 Toolbar Always at the Top

- Here are pictures of the tools.

Quarter Inch Ruler

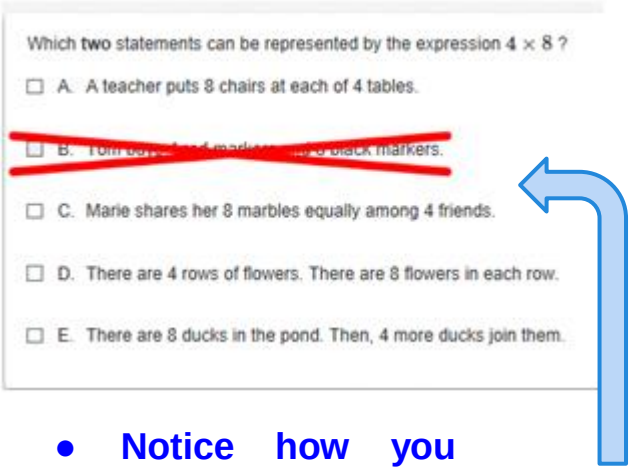


The circles on each end allow for it to move.



Highlighting

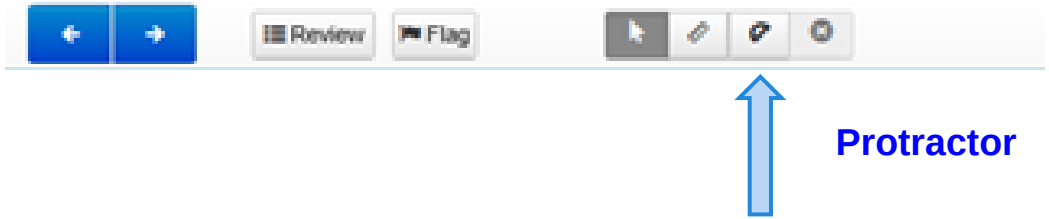
- **You can select information and highlight it in the problem.**



- **Notice how you can eliminate answers you find incorrect.**
- **This feature only works for multiple choice problems.**

Grade 4 Toolbar Always at the Top

- The EOY Grade 4 examination has the same tool bar as Grade 3 except the Protractor is added.
- The ruler is not a Quarter Inch, but an Eighth Inch.



This is the Protractor. Notice the two circles on each end. These allow for it to move.

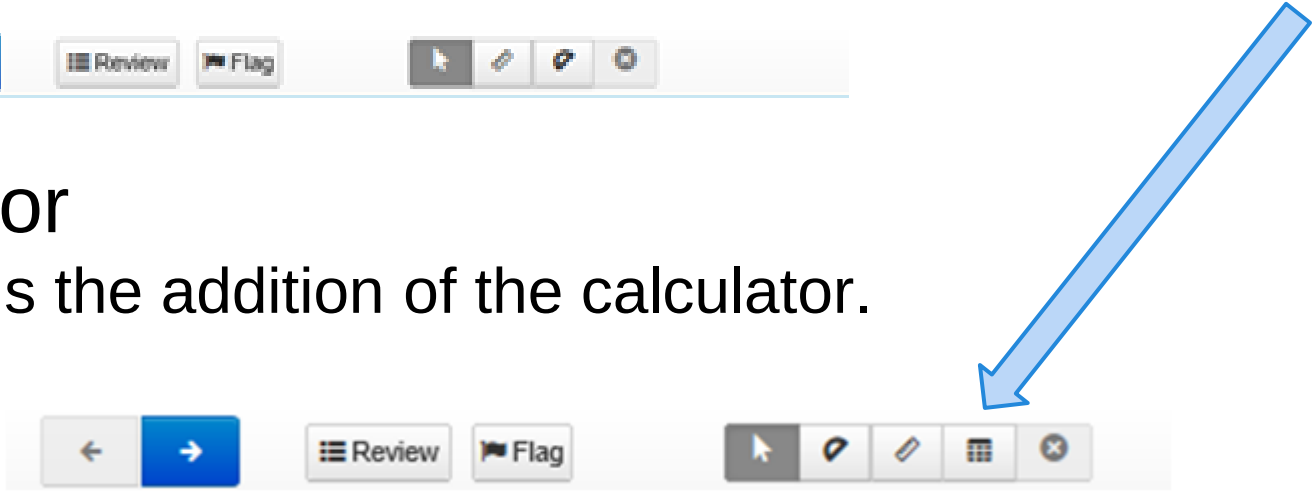
Grade 5 Toolbar Always at the Top

- The Grade 5 tools are exactly the same as Grade 4.

Grade 6 Toolbar Always at the Top

- The Ruler is not Eighth Inch but Centimeter.
- Non-Calculator (Same as Grade 5)

- Calculator
  - There is the addition of the calculator.



Grade 7 Toolbar Always at the Top

- Grade 7 Tools are the same as 6th grade.
- Non-Calculator

- Calculator

Grade 8 Toolbar Always at the Top

- Grade 8 Tools are the same as 7th grade.
- Non-Calculator

- Calculator

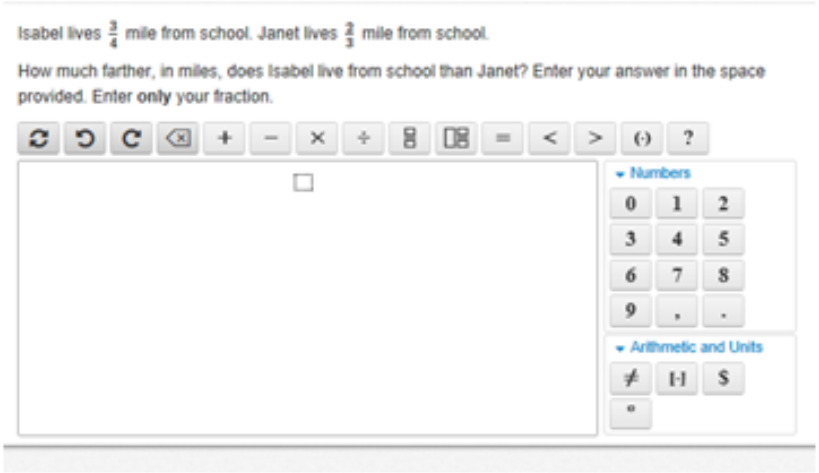
Grade 4-5 Tools You Will See Embedded in Certain Problems

- For Grades 4-5, you will have problems that embed tools you must know.

- The following slides will describe the tools you will see in Grades 4-5.

Grades 4-5 Tools You Will See Embedded in Certain Problems

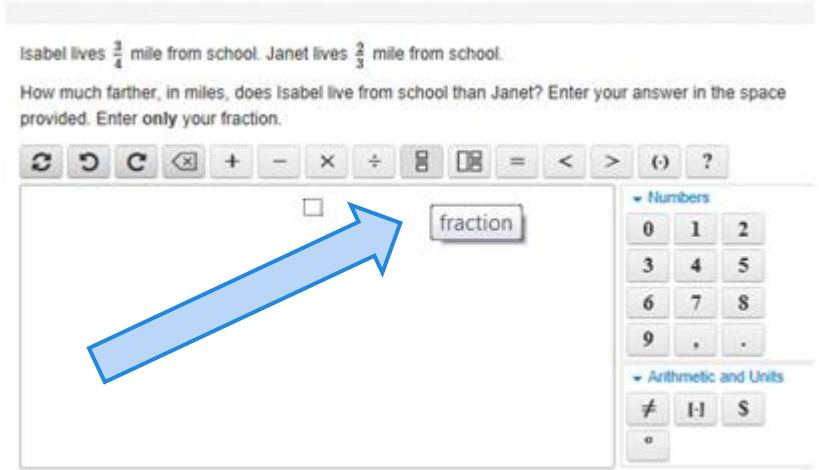
- You must understand the toolbars. You need to understand all that apply here.



Grades 4-5 Tools You Will See Embedded in Certain Problems

- Hover over each top toolbar in order for the purpose to appear.

Example of the hover: When you hover your mouse over the toolbar sections, the explanation appears. In this example, I am hovering over the "fraction" icon. The arrow is pointing to this example.



Grades 4-5 Tools You Will See Embedded in Certain Problems

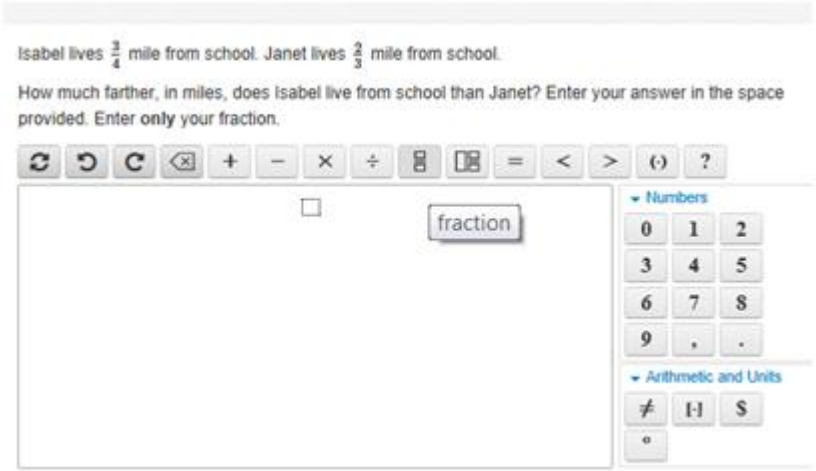
- Top Toolbar

Clear All	Undo	Redo	Backspace	plus sign	minus sign	times sign	division sign	fraction	mixed number	equal	less than	greater than	parenthesis	unknown number

You must know what each means and the corresponding function.

Grades 4-5 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

- Side Portions



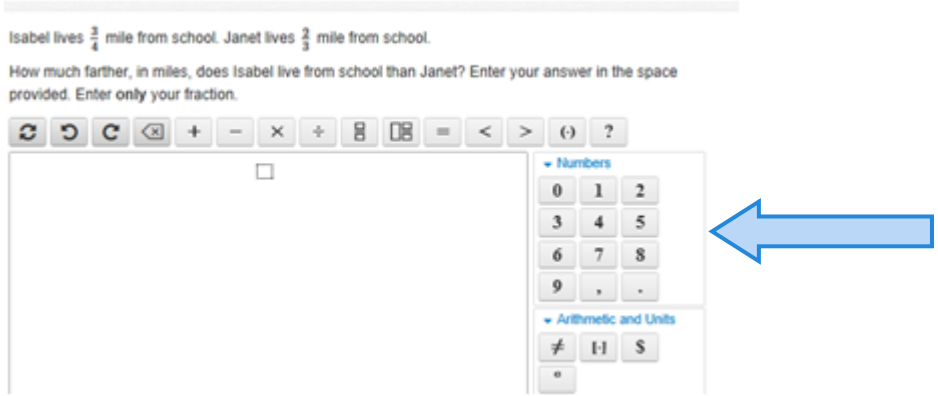
You must know what each of these will do when you click on the drop down arrow for each of the two sections.

The sections appear for you, but you can close them as well during a problem.

- **Numbers**
- **Arithmetic and Units**

Grades 4-5 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

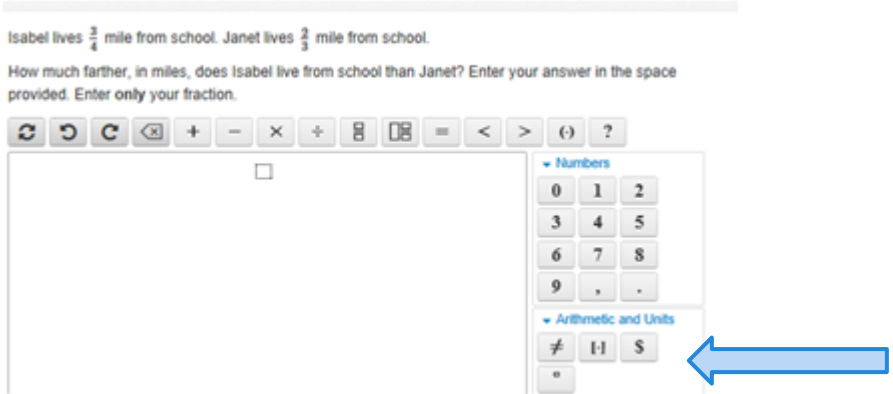
- Numbers



- **You must know that the numbers 0-9 will be available.**
- **The , and . function will be available.**

Grades 4-5 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

- Arithmetic and Units



Here are the signs in order that you need to recognize and understand their function:

- **not equal**
- **bracket**
- **dollar sign**
- **degree sign**

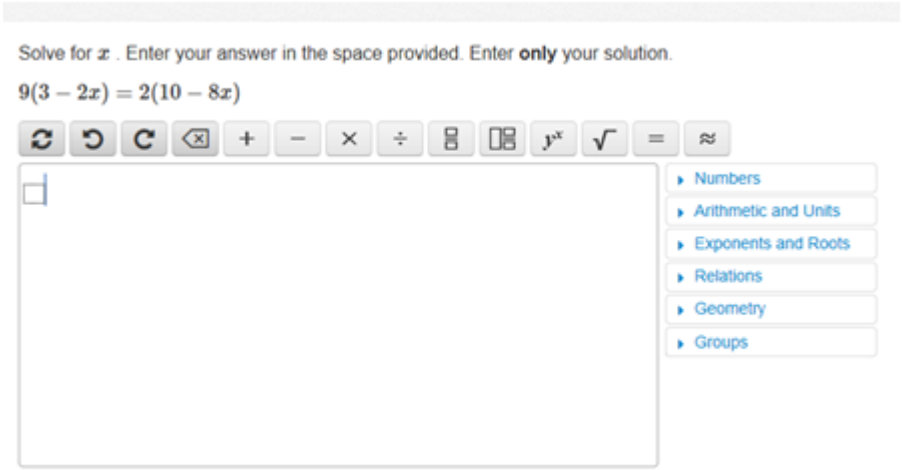
Grades 6-8 Tools You Will See Embedded in Certain Problems

- For Grades 6-8, you will have problems that embed tools you must know.

- The following slides will describe the tools you will see in Grades 6-8.

Grades 6-8 Tools You Will See Embedded in Certain Problems(Not a Calculator!)

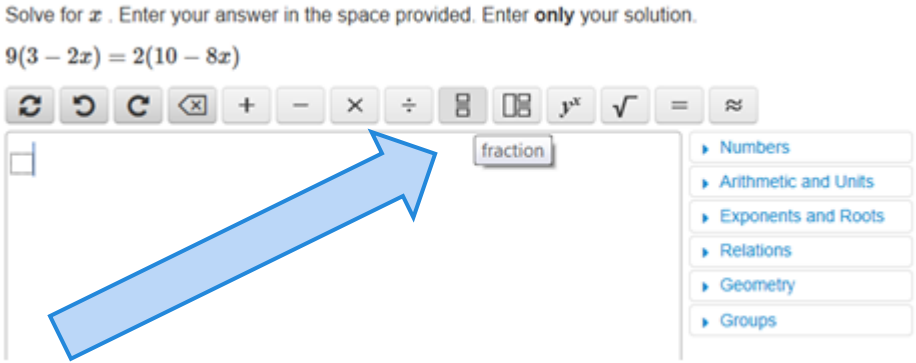
- You must understand the toolbars. You need to understand all that apply here.



Grades 6-8 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

- Hover over each top toolbar in order for the purpose to appear.

Example of the hover: When you hover your mouse over the toolbar sections, the explanation appears. In this example, I am hovering over the "fraction" icon. The arrow is pointing to this example.



Grades 6-8 Tools You Will See Embedded in Certain Problem(Not a Calculator!)

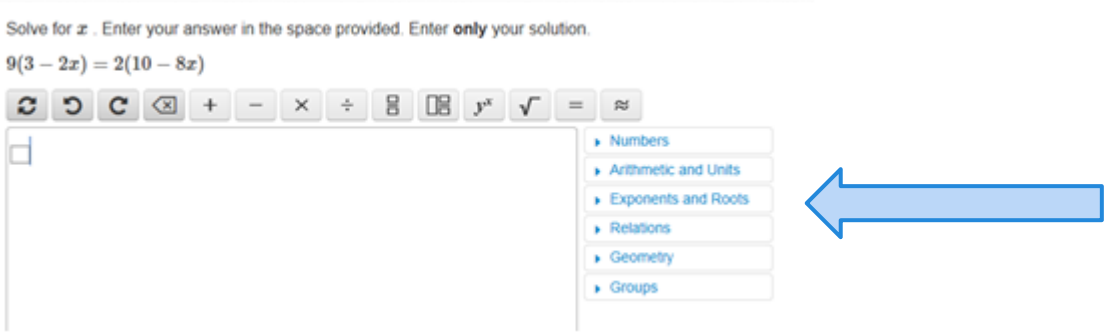
- Top Toolbar

Clear All	Undo	Redo	Backspace	plus sign	minus sign	times sign	division sign	fraction	mixed number	power	square root	equal	approximately equal

You must know what each means and the corresponding function.

Grades 6-8 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

- Side Portions

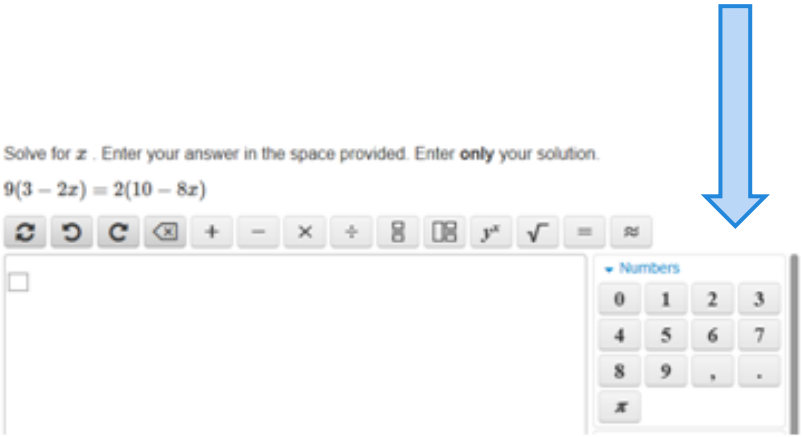


You must know what each of these will do when you click on the drop down arrow for each of the six sections.

- **Numbers**
- **Arithmetic and Units**
- **Exponents and Roots**
- **Relations**
- **Geometry**
- **Groups**

Grades 6-8 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

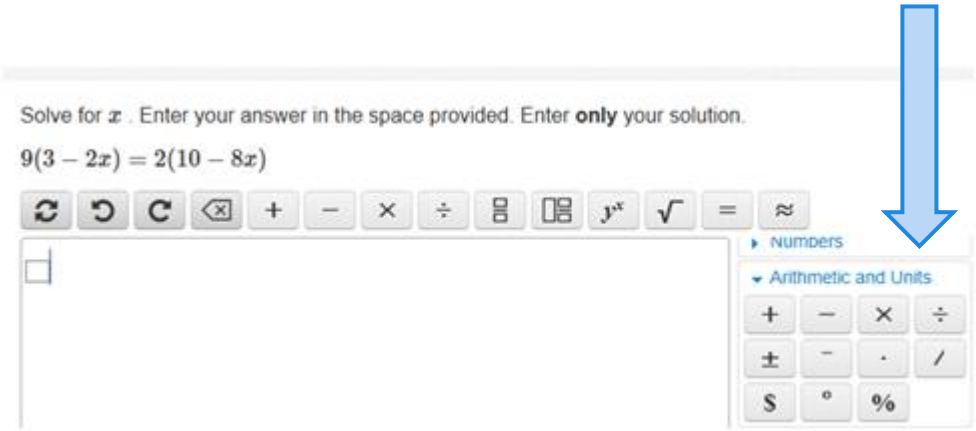
- Numbers



- **You must know that the numbers 0-9 will be available.**
- **The , and . function will be available.**
- **Constant Pi will be available.**

Grades 6-8 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

- Arithmetic and Units



Here are the signs in order that you need to recognize and understand their function:

- **plus sign**
- **minus sign**
- **times sign**
- **division sign**
- **plus-minus sign**
- **negative sign**
- **times dot**
- **division slash**
- **dollar sign**
- **degree sign**
- **percent sign**

Grades 6-8 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

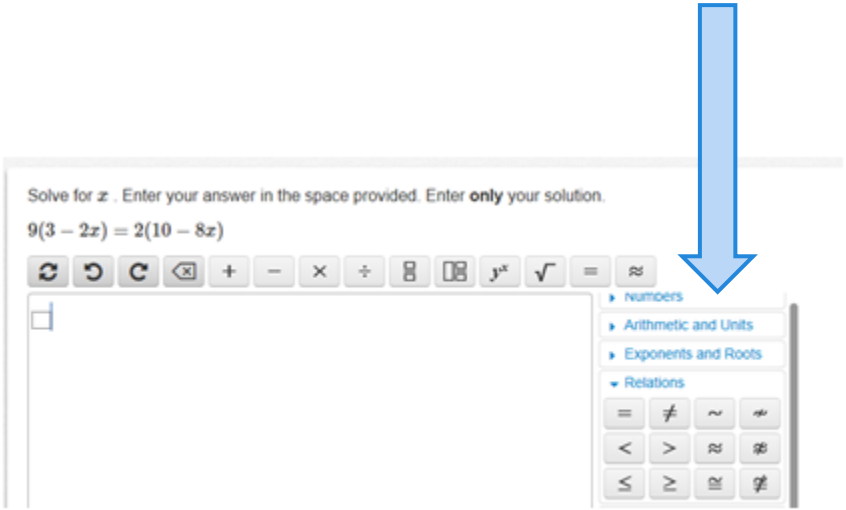
- Exponents and Roots

Here are the signs in order that you need to recognize and understand their function:

- **power**
- **square root**
- **cube root**

Grades 6-8 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

- Relations

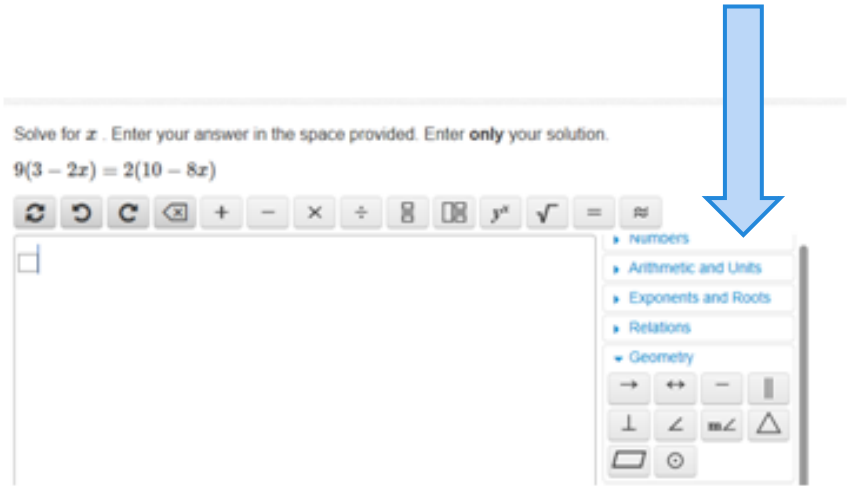


Here are the signs in order that you need to recognize and understand their function:

- **equal**
- **not equal**
- **similar**
- **not similar**
- **less than**
- **greater than**
- **approximately equal**
- **not approximately equal**
- **less than or equal**
- **greater than or equal**
- **congruent**
- **not congruent**

Grades 6-8 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

- Geometry

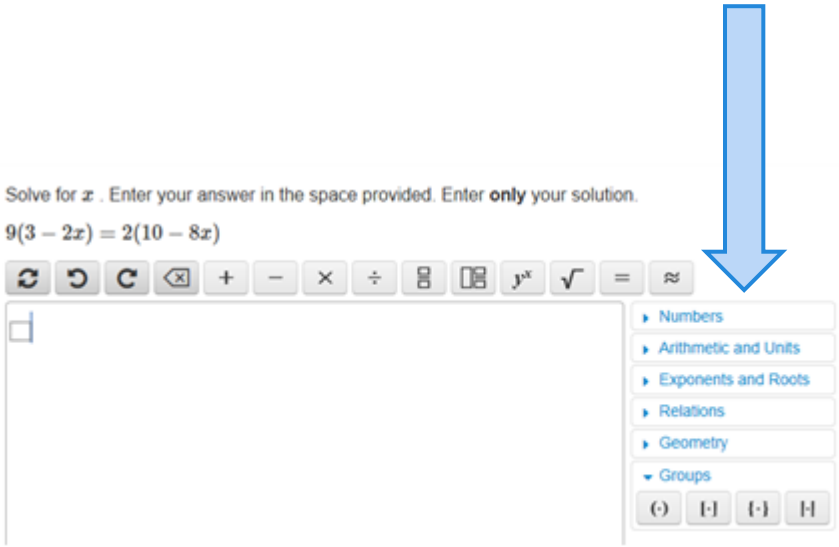


Here are the signs in order that you need to recognize and understand their function:

- **ray**
- **line**
- **line segment**
- **parallel**
- **perpendicular**
- **angle**
- **angle measure**
- **triangle**
- **parallelogram**
- **circle**

Grades 6-8 Tools You Will See Embedded in Certain Problems (Not a Calculator!)

- Groups



Here are the signs in order that you need to recognize and understand their function:

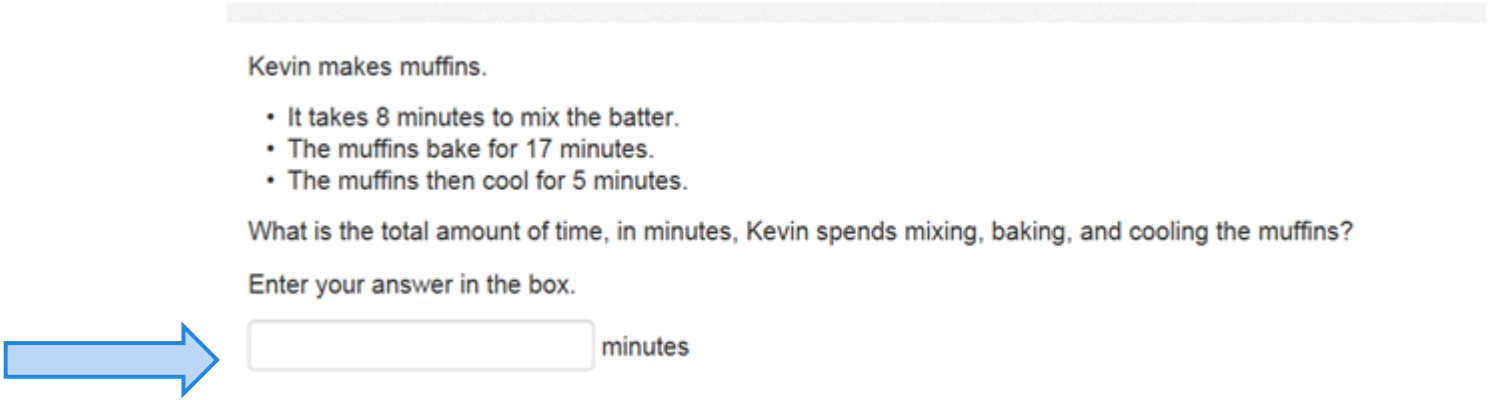
- **parenthesis**
- **bracket**
- **brace**
- **absolute value**

Examples

- The following are examples of different tasks that students will be expected to be proficient on for the PARCC assessment.

Grade 3 EOY (Question 1) Answer Box

- You must know that there is a text box that you must enter your answer into.



Kevin makes muffins.

- It takes 8 minutes to mix the batter.
- The muffins bake for 17 minutes.
- The muffins then cool for 5 minutes.

What is the total amount of time, in minutes, Kevin spends mixing, baking, and cooling the muffins?

Enter your answer in the box.

minutes

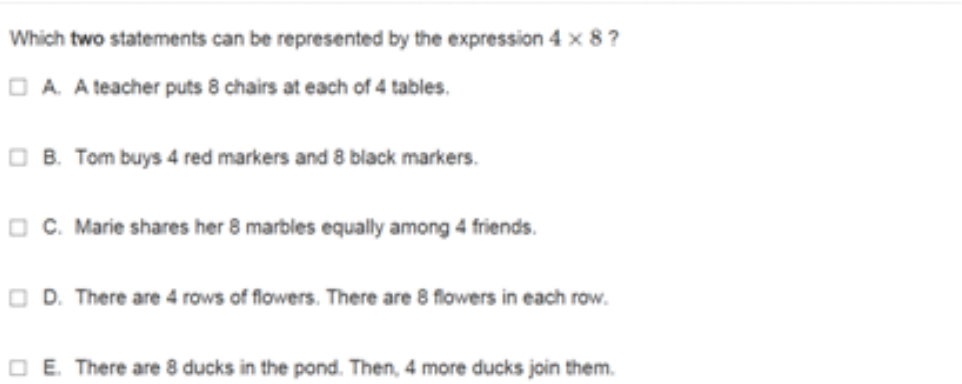
Text Box

- When you enter a number into a text box, an “X” will appear on the right. If you click on this “X” the number you entered will delete.
  - This may or may not happen depending on the Grade Level
- If you enter anything besides a number, the words “Invalid Input” will appear.

Grade 3 EOY (Question 2) Multiple Clicks

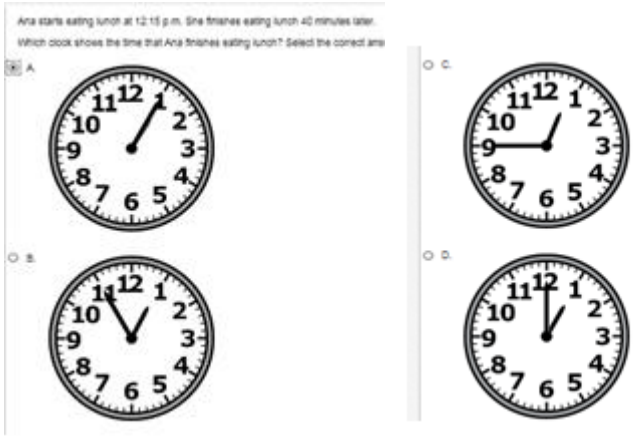
- You must know that you can click multiple statements for your answers. It allows you to choose more than two! The number asked for may change!

Recognize the bold statement. It tells you to know that you need two! It's a roadmap.



Grade 3 EOY (Question 5) Zooming

- This is a great example of how zooming will help you see all at once.

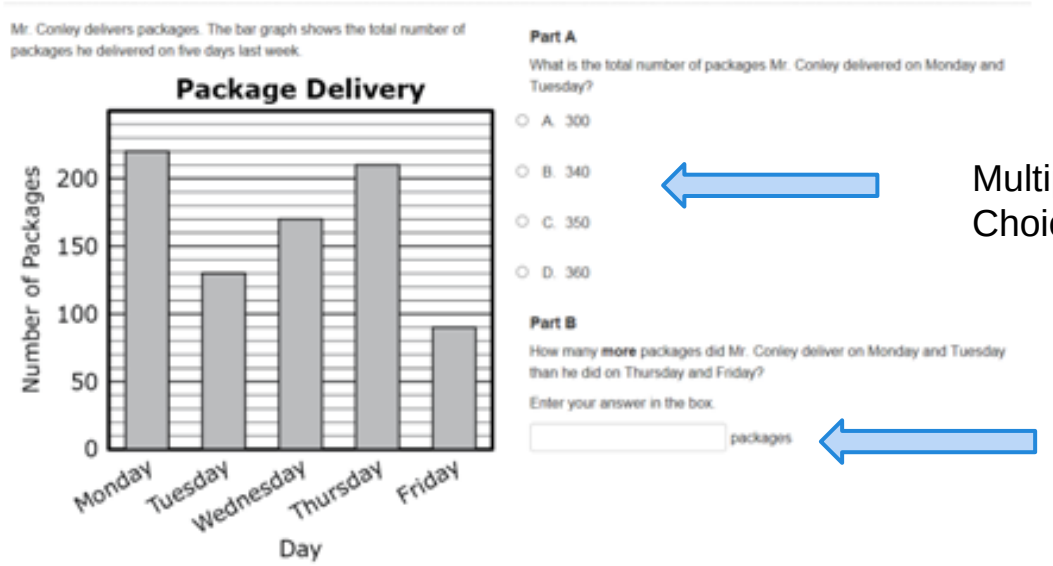


This is a great example of how you can use the Control - and + keys on the keyboard in order to see the entire problem. This is your choice. If you don't zoom out, then you will have to move around with your mouse to see the entire screen.

Grade 3 EOY (Question 6) Part A/B

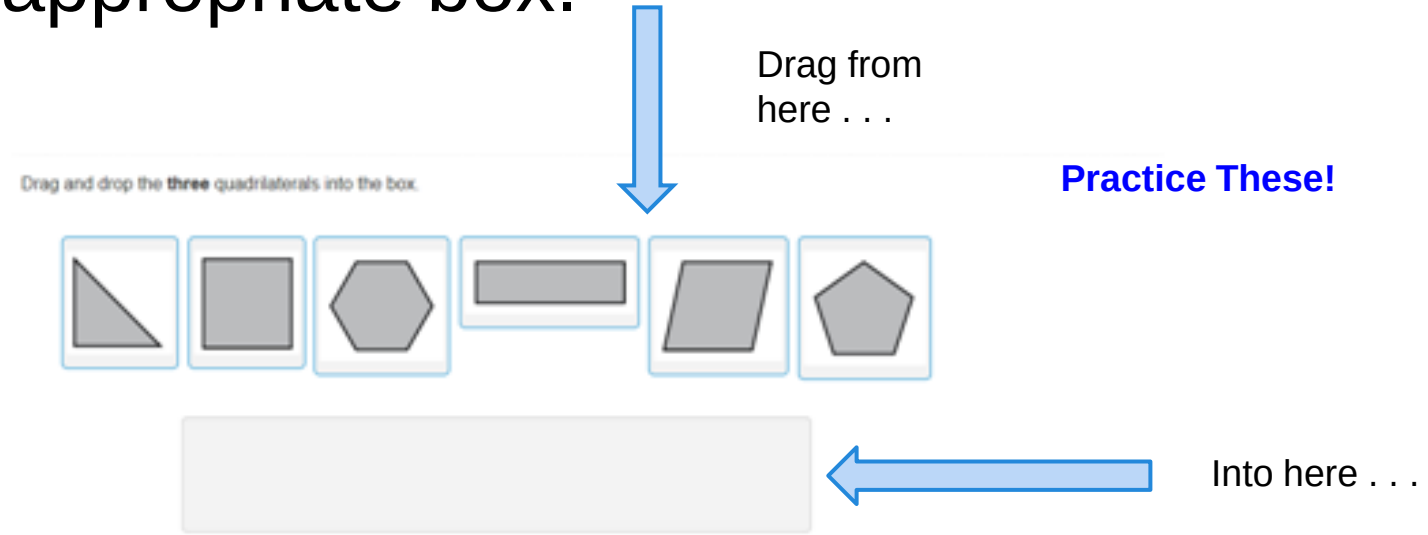
- Part A (Multiple Choice Click) - Part B (Text Box)

You have a multiple choice in Part A and a text box you must enter an answer into in Part B.



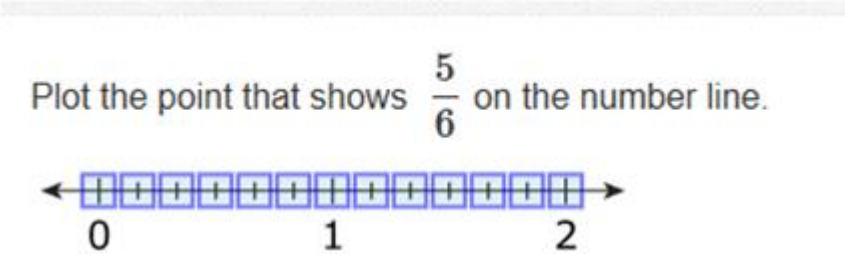
Grade 3 EOY (Question 7) Drag and Drop

- You need to drag three quadrilaterals into the appropriate box.



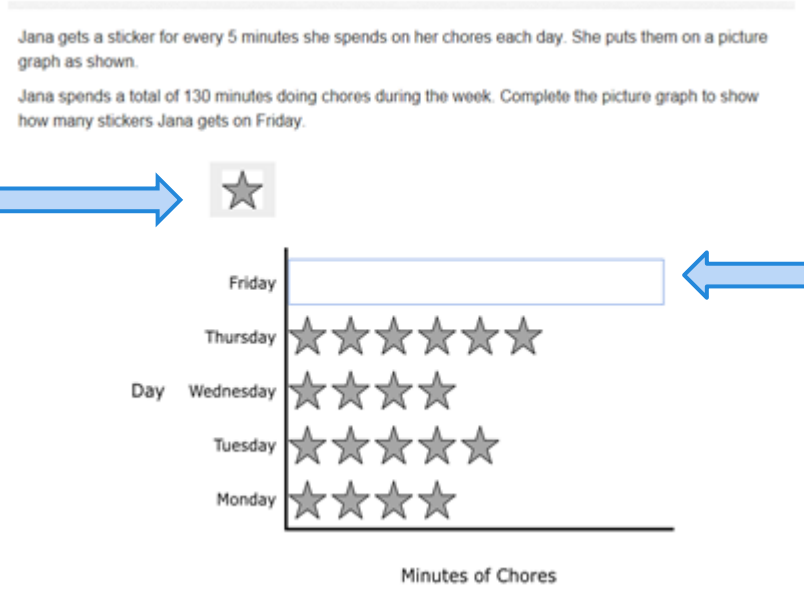
Grade 3 EOY (Question 8) Number Line

- You need to know how to click on the appropriate space on the number line. Only one click will register; you will have to click again to move the highlighted box.



Grade 3 EOY (Question 9) Bar Graph Drag and Drop

- You must drag the appropriate # of stars.



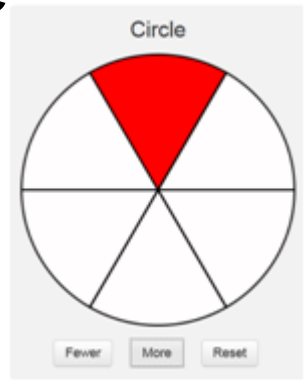
Drag from here . . .

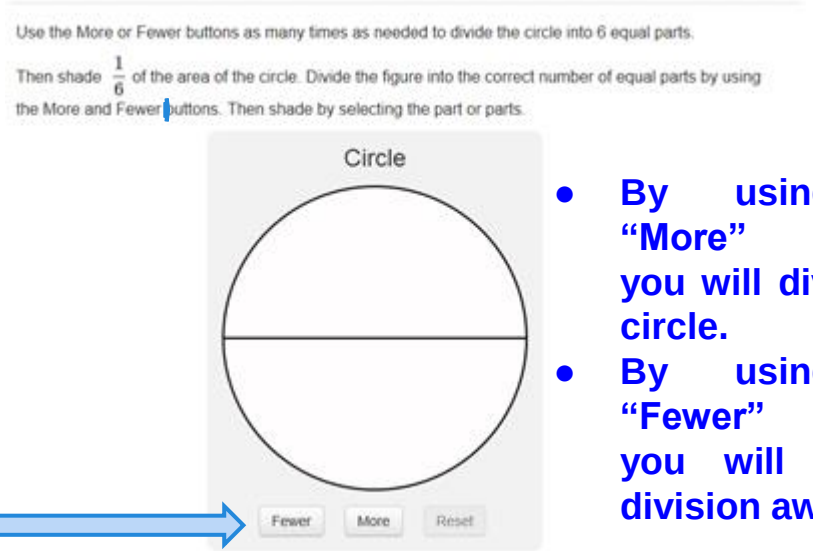
Into here . . .

Grade 3 EOY (Question 17) Dividing a Circle

- You must know how to use the Fewer, More, and Reset buttons for this task. Then click to shade

Finally, you must click the portion of the circle you want to shade (⅙!)



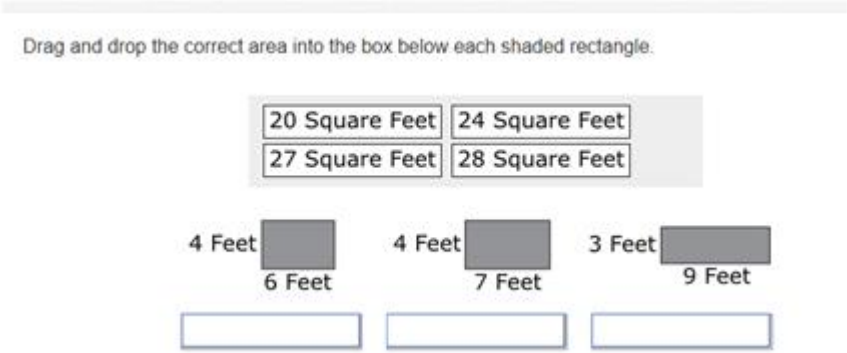


- **By using the "More" button, you will divide the circle.**
- **By using the "Fewer" button, you will take a division away.**

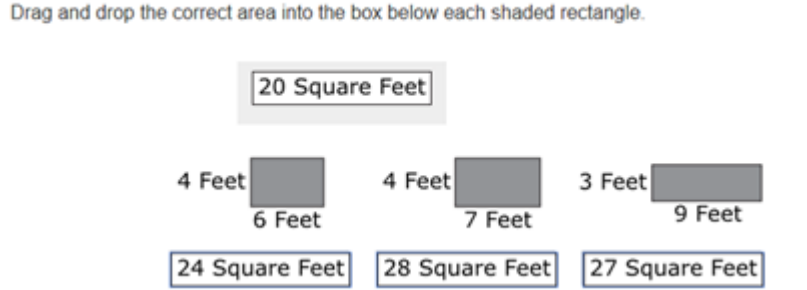
Grade 3 EOY (Question 19) 3 Drag and Drop Boxes

- You must know how to drag and drop the three areas into the correct boxes.

This is how the problem looks before you drag and drop the correct answers.



The proper answers were dragged and dropped into the corresponding boxes.

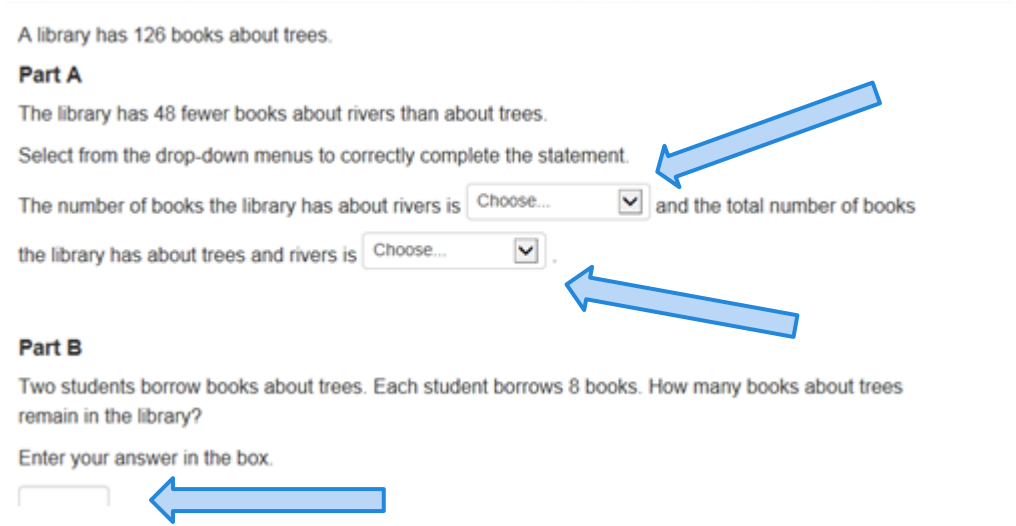


Grade 3 EOY (Question 24) Part A Dropdown - Part B Text Box

- You must know that Part A has 2 drop down boxes. Each must be selected. Part B is a text box.

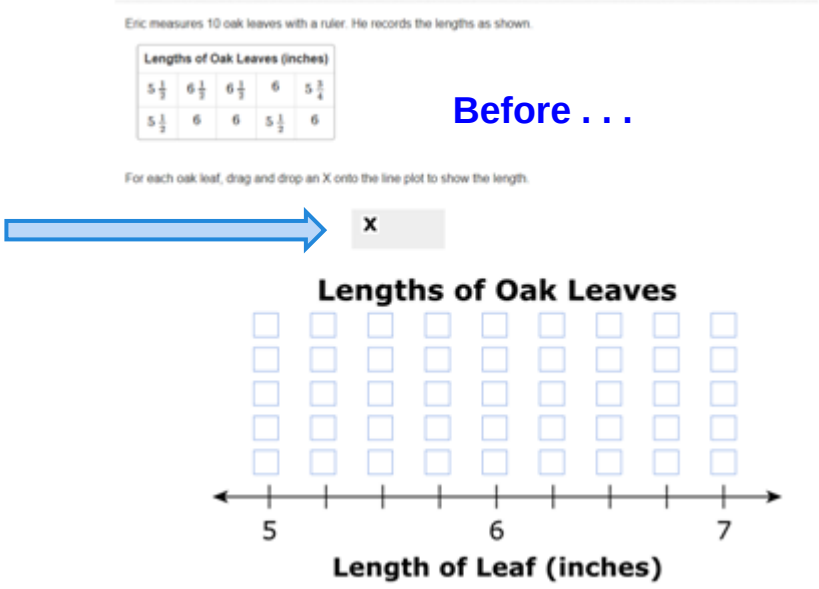
The 1st drop down . . .

The 2nd drop down . . .

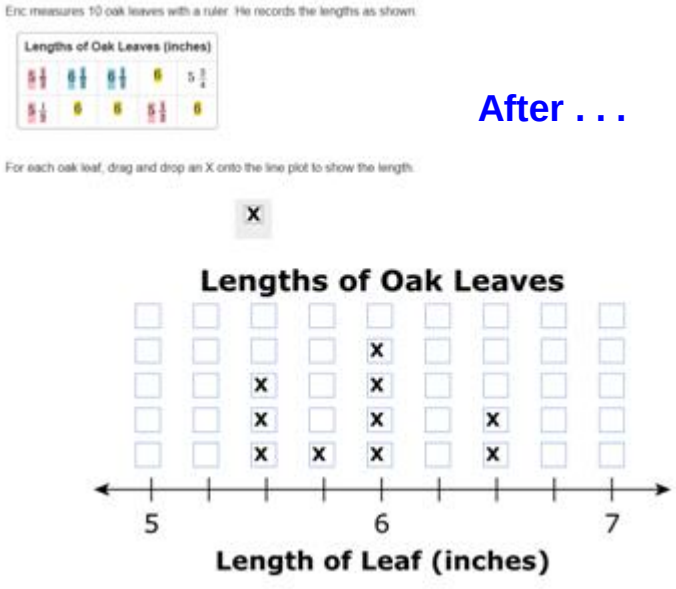


Grade 3 EOY (Question 33) Drag and Drop to a Line Plot

- You must know how to drag and drop into the line plot. Notice the highlighting.



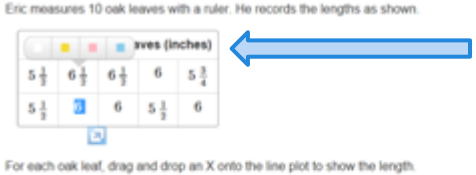
Before . . .



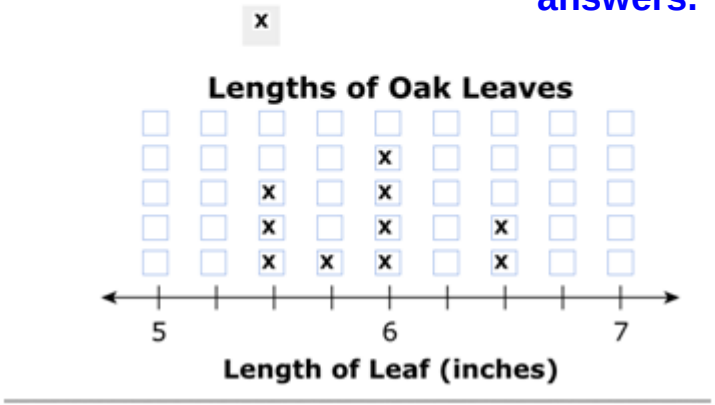
After . . .

Grade 3 EOY (Question 33) Double Click Highlight

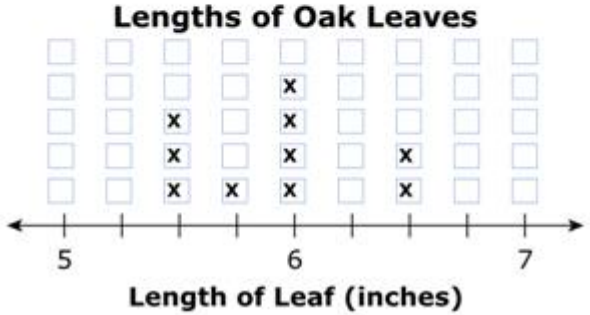
- Notice the “double-click highlight”



By double-clicking you will activate the highlighter. This gives you the option of coloring your answers.

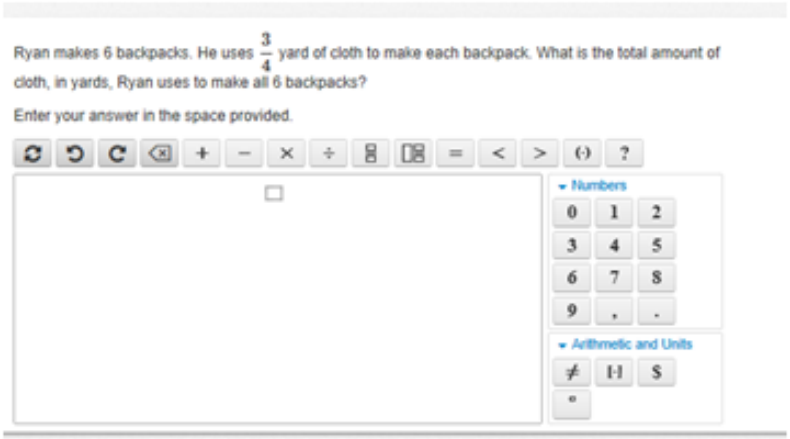


A great way to mark what you have done!



Grade 4 EOY (Question 3) Toolbar

- Notice that the toolbar is opened for you. There are two sections (Numbers and Arithmetic and Units).

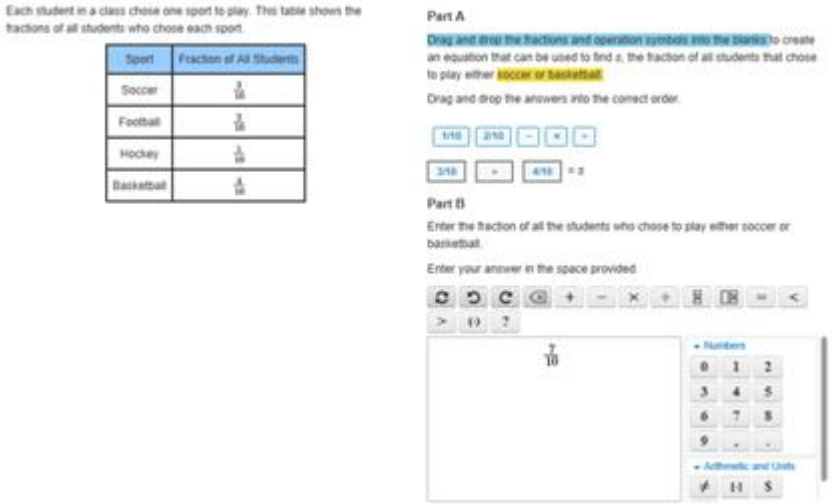


Grade 4 EOY (Question 8) Drag and Drop with a 4th Grade Toolbar

- Notice that you have to drag and drop the fractions with the correct operation into the correct boxes for Part A.
- For Part B, you need to add the fractions from Part A and enter them into the space in Part B.
- This involves knowing the fraction button.

Grade 4 EOY (Question 8) Drag and Drop with a 4th Grade Toolbar

- Here is a finished picture . . .



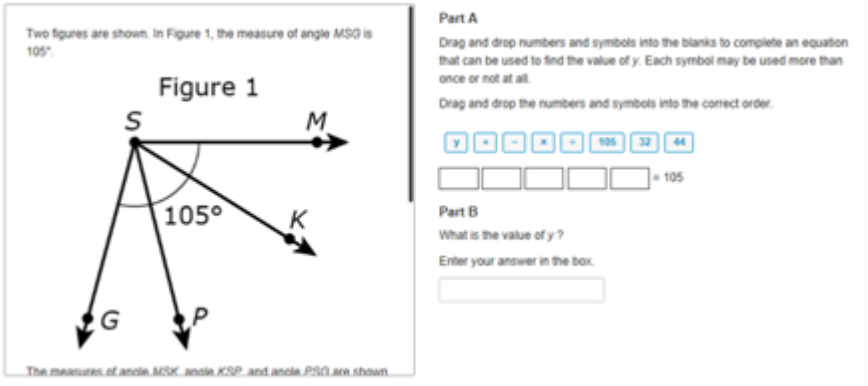
- **Notice that important information was highlighted.**
- **You may have highlighted other information as well.**

Grade 4 EOY (Question 13) Two Toolbars

- Know you may see two toolbars in a problem.

Grade 4 EOY (Question 17) Drag and Drop and Text Box

- This problem has 8 choices to be placed in 5 spaces.
- It then asks you for an answer in the text box.



Grade 4 EOY (Question 18) Table

- You need to read to understand the difference between “appear” and “has.”

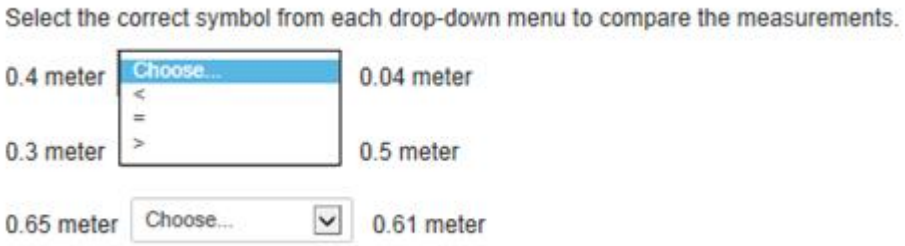
For each figure pictured in the table, select the box for any statement that describes the figure. You may select more than one box for each figure.

	Appears to have at least 2 parallel sides	Has at least 2 perpendicular sides
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐

Grade 4 EOY (Question 20) Three Drop Downs Choosing a Symbol

- You must operate 3 Drop Downs while choosing the correct symbol.

- **Notice the drop downs.**
- **You must understand how to operate them and the meaning of each symbol.**

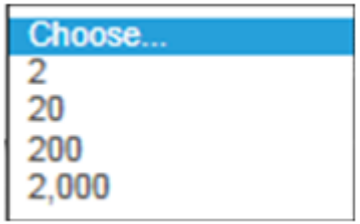


Grade 4 EOY (Question 24) Drop Down with Place Value

- There are 2 Drop Downs with place value.

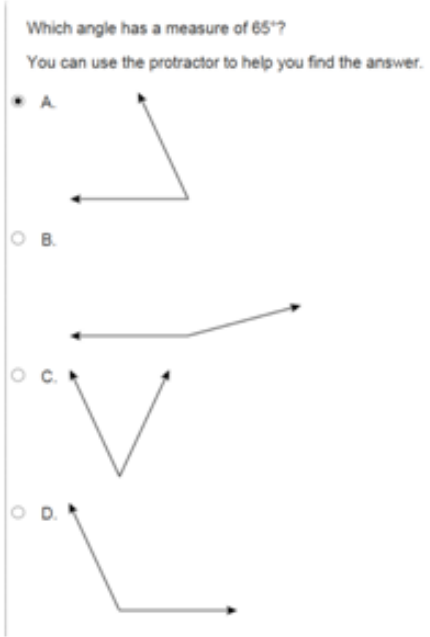
Full Problem

Drop Downs . . .

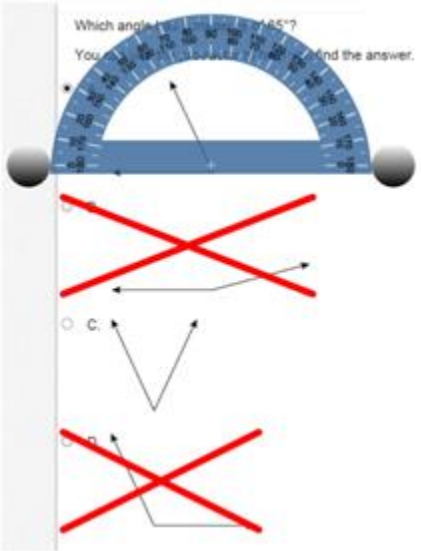


Grade 4 EOY (Question 26) Protractor

- You must be proficient at using the protractor.

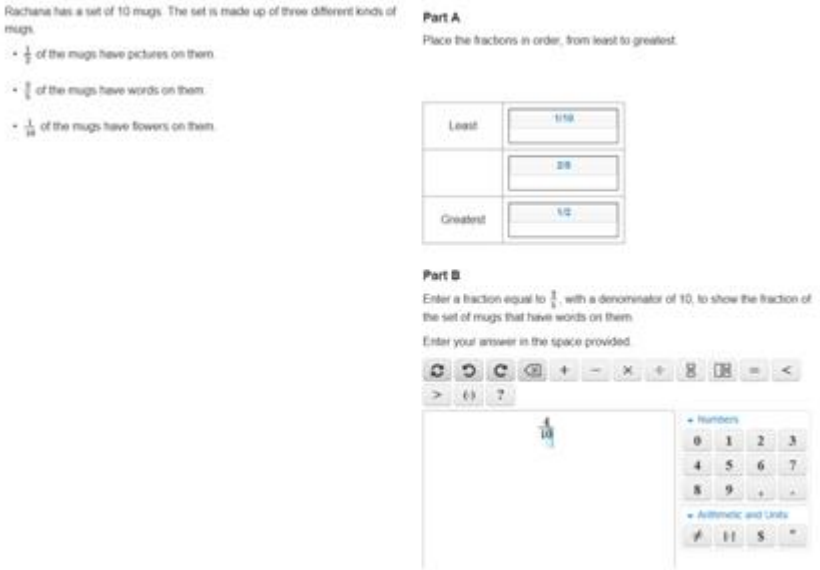


- **Understand the + sign and how it should be lined up.**



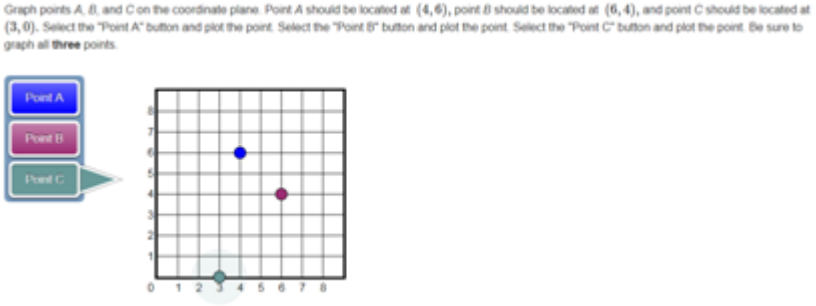
Grade 4 EOY (Question 34) Part A Placement and Part B Toolbar

- Understand you may have a placement in order problem with a toolbar problem.



Grade 5 EOY (Question 1) Graphing Multiple Points on a coordinate plane

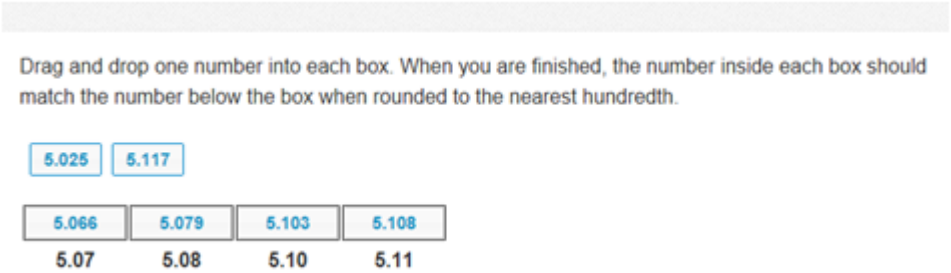
- You need to know how to utilize the buttons and graph three separate points on the coordinate plane.



- **You must click on each box (Point A - Point B - Point C) each time to generate the color of the point that corresponds to the separate coordinates.**
- **If you want to move a point after you have placed it, you must be sure to "reclick" on the proper color.**

Grade 5 EOY (Question 6) Drag and Drop Decimals

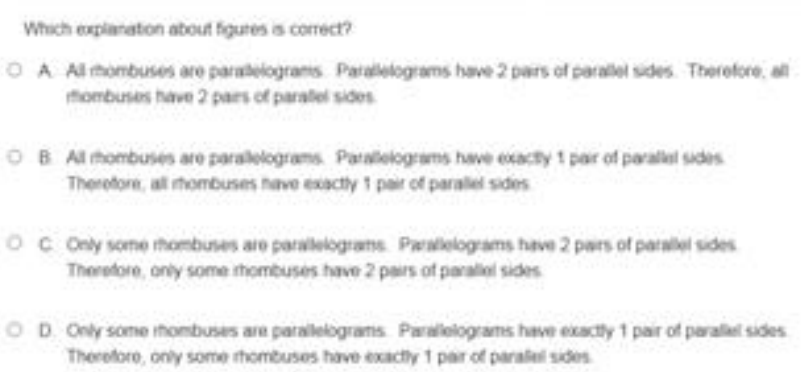
- You must drag and drop decimals.
  - Six choices to four spots
  - You must drag the proper decimals that would round to the corresponding places.



- **Notice that you have two choices that remain after you have placed the four decimals in their proper places.**
- **The "answer eliminator" does not work on this problem.**

Grade 5 EOY (Question 7) Reading and Choosing

- You must be able to read the problem and choose the answer that correctly describes the figures.


Which explanation about figures is correct?

A. All rhombuses are parallelograms. Parallelograms have 2 pairs of parallel sides. Therefore, all rhombuses have 2 pairs of parallel sides.

B. All rhombuses are parallelograms. Parallelograms have exactly 1 pair of parallel sides. Therefore, all rhombuses have exactly 1 pair of parallel sides.

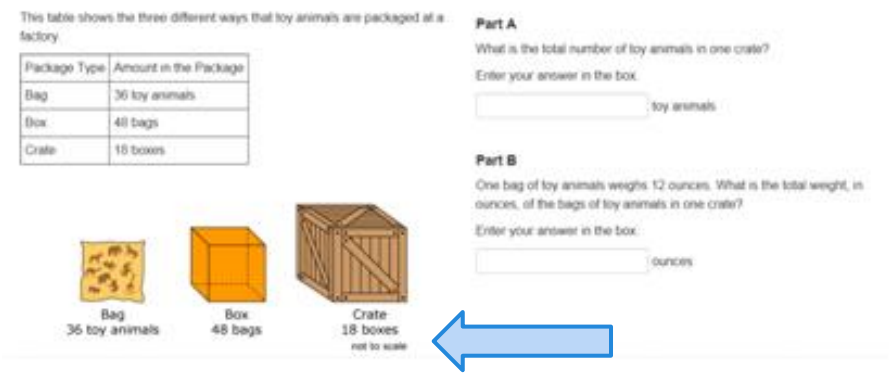
C. Only some rhombuses are parallelograms. Parallelograms have 2 pairs of parallel sides. Therefore, only some rhombuses have 2 pairs of parallel sides.

D. Only some rhombuses are parallelograms. Parallelograms have exactly 1 pair of parallel sides. Therefore, only some rhombuses have exactly 1 pair of parallel sides.

- **Remember that you can use your highlighter and answer eliminator in the multiple choice problems!**

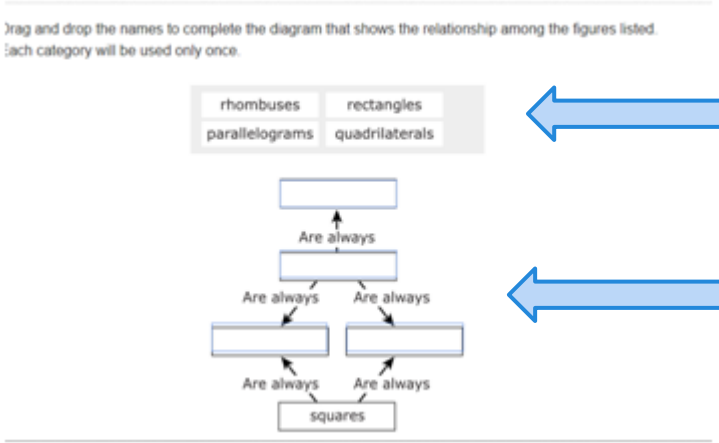
Grade 5 EOY (Question 8) Not to Scale

- This problem involves the words “not to scale.” You must understand what this means. You must then place your answers in the two text boxes.



Grade 5 EOY (Question 13) Relationships

- You must drag and drop to represent relationships that exist among figures.

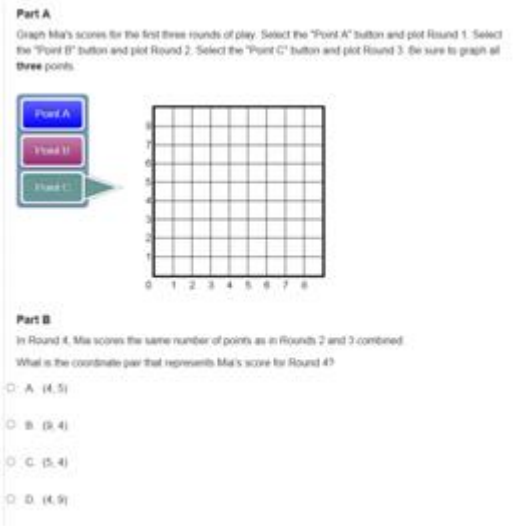


- **Drag from here . . .**
- **To here . . .**

Grade 5 EOY (Question 26) Graphing Points then Multiple Choice

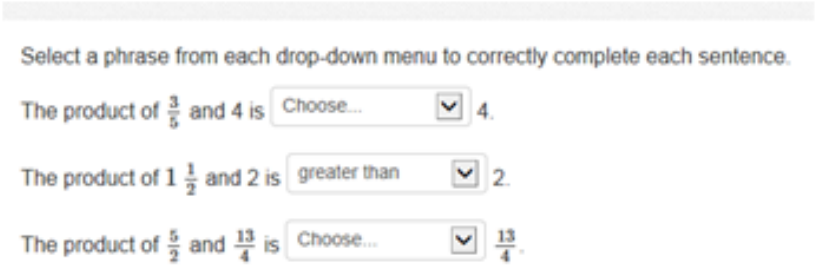
- You need to understand you may have to graph points and then answer a multiple choice problem that is related.

  - **You first must plot points by clicking on the appropriate color and following directions.**
  - **You then have to answer the multiple choice question.**



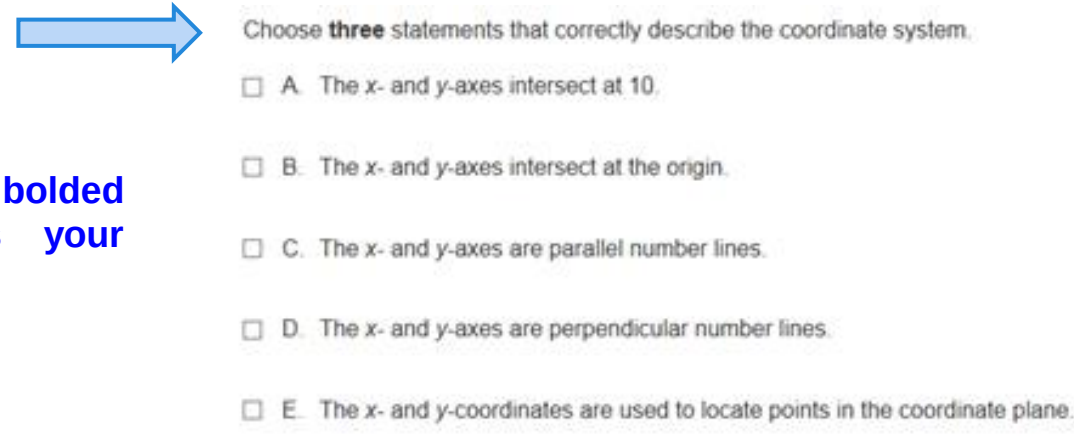
Grade 5 (Question 29) Three Drop Downs

- You may see three drop downs in one problem.



Grade 5 EOY (Question 32) Three Correct Statements

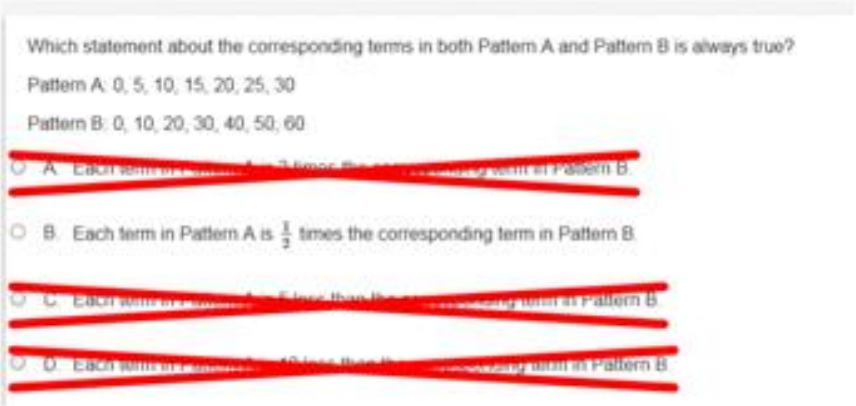
- You may be asked for a total of 3 correct statements (of a possible 5).



- **Notice the bolded vocabulary. It is your roadmap to success.**

Grade 5 EOY (Question 33) Choose the Statement that is ALWAYS True

- You may see a question that asks you to choose the statement that is “always true.”


Which statement about the corresponding terms in both Pattern A and Pattern B is always true?

Pattern A: 0, 5, 10, 15, 20, 25, 30

Pattern B: 0, 10, 20, 30, 40, 50, 60

A. Each term in Pattern B

B. Each term in Pattern A is $\frac{1}{2}$ times the corresponding term in Pattern B

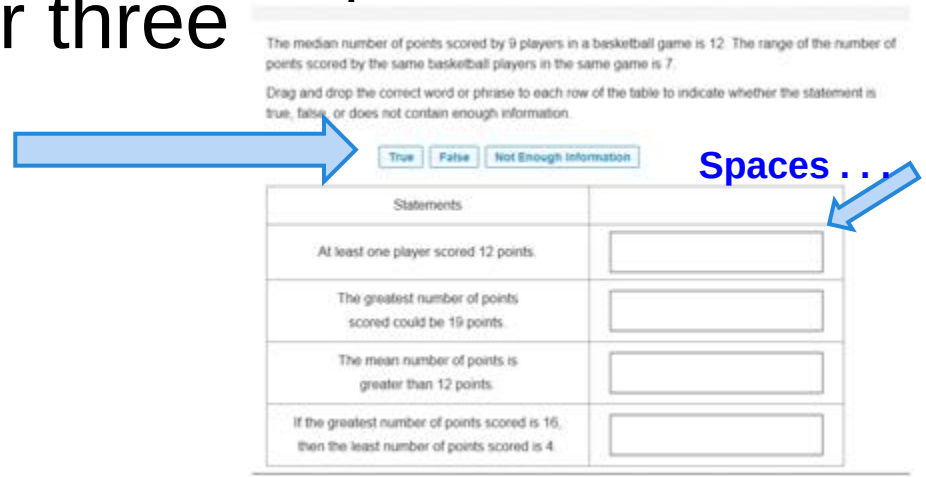
C. Each term in Pattern B

D. Each term in Pattern B

- **Notice the use of the answer eliminator.**
- **You must choose the answer that is “always true.”**
- **This means that the answer will hold true for each value in the patterns.**

Grade 6 EOY (Question 2) Drag and Drop Words

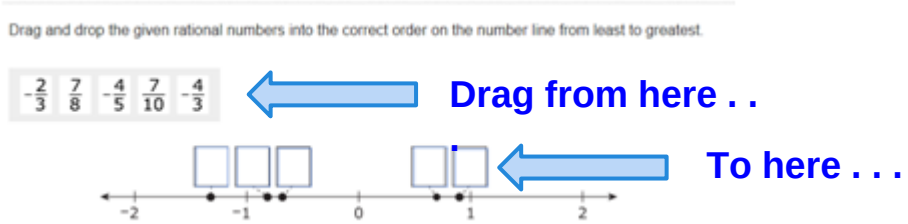
- You need to know to drag and drop the words True, False, and Not Enough Information into the correct spaces. You have four spaces for three



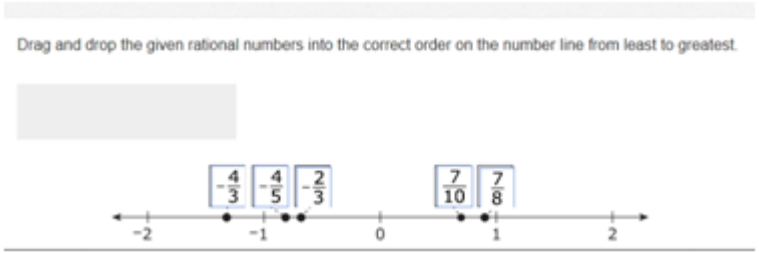
Grade 6 EOY (Question 5) Drag and Drop

- You need to know how to drag and drop items into the correct order on the number line.

Before . . .



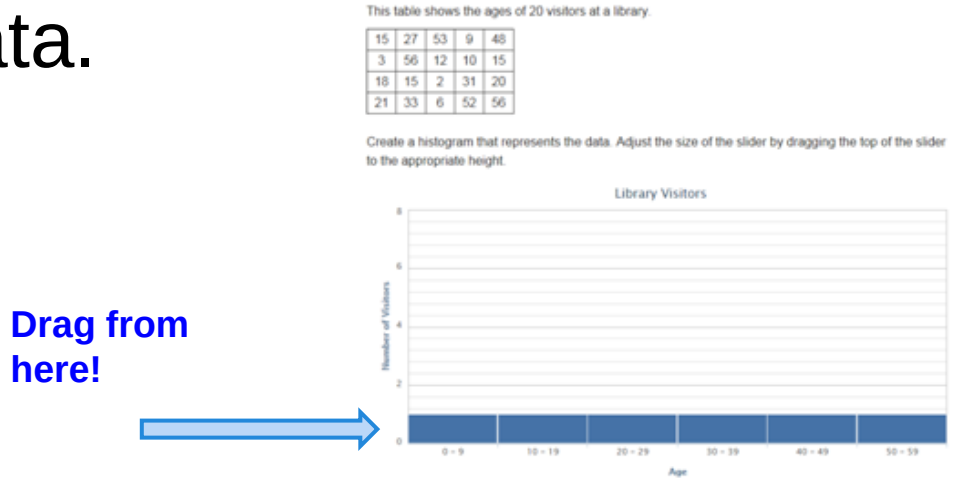
After . . .



- **Notice how after you drag they disappear from the top box.**
- **You can't transfer from one of the small boxes to another; they must go back into the big box in order to make a change.**

Grade 6 EOY (Question 10) Histogram

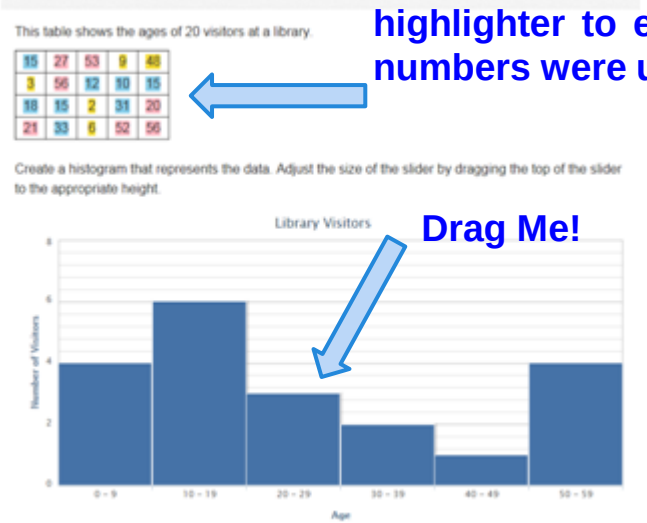
- Creating the Histogram
- You need to know how to drag the bottom sections upward in order to represent the data.



Grade 6 EOY (Question 10) Histogram

- Histogram
- You drag the graph to where it needs to be.

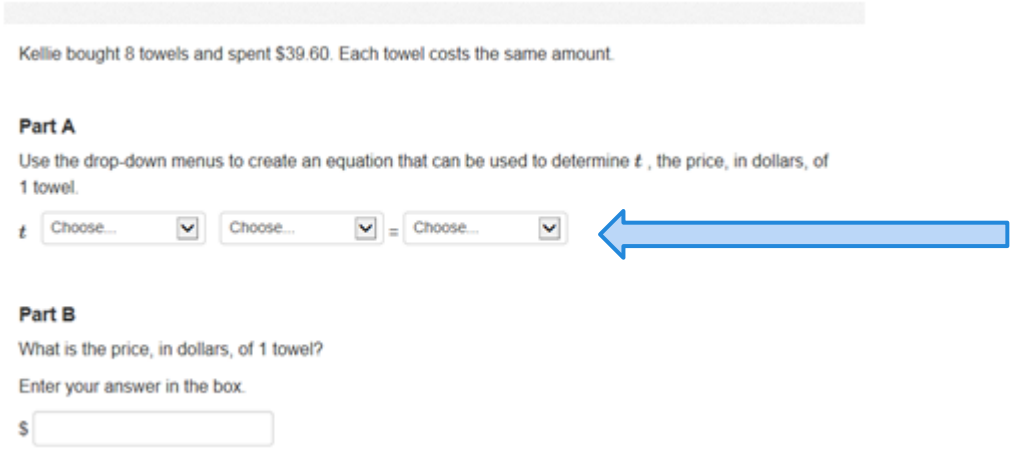
Notice also the use of the highlighter to ensure that all of the numbers were utilized on the graph.



Notice also that when you hover over a section (10-19), it will tell you how many visitors you have (6).

Grade 6 EOY (Question 1 Calculator Part) Three Drop Downs

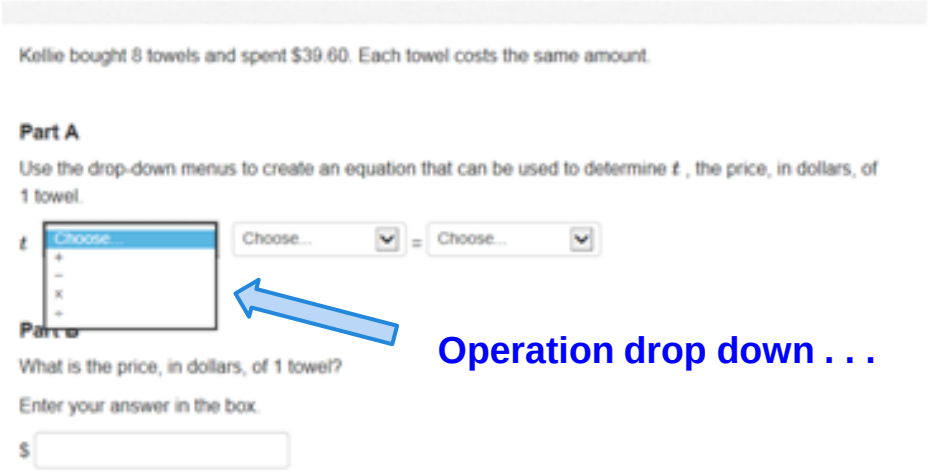
- You need to utilize three drop downs and then enter your final answer in the text box.

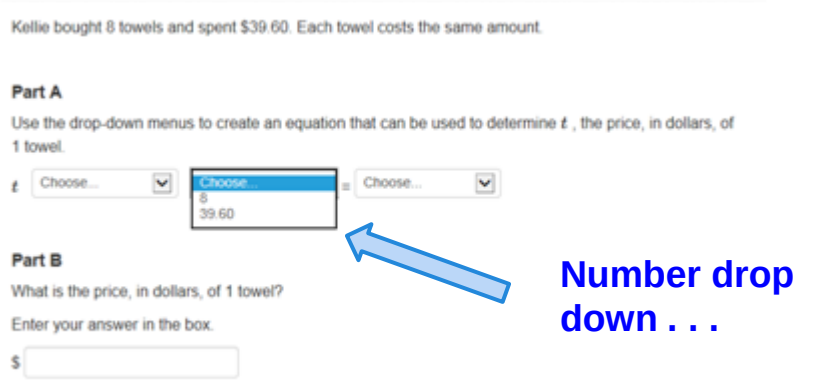


- **Three separate drop downs.**
- **One is for the operation.**
- **Two contain numbers.**

Grade 6 EOY (Question 1 Calculator Part) Three Drop Downs

- Drop down examples . . .





Grade 6 EOY (Question 2 Calculator Part) Four Text Boxes

- Get ready for four separate text boxes to place answers into . . .

Part A

How many miles per hour did Chad drive?

Enter your answer in the box.

miles per hour

Part B

Chad will drive 672 more miles. He continues to drive at the same rate.

How many hours will it take Chad to drive the 672 miles?

Enter your answer in the box.

hours

Part C

Chad stopped and filled the car with 11 gallons of gas. He had driven 308 miles using the previous 11 gallons of gas.

How many miles per gallon did Chad's car get?

Enter your answer in the box.

miles per gallon

Part D

Chad's car continues to get the same number of miles per gallon.

How many gallons of gas will Chad's car use to travel 672 miles?

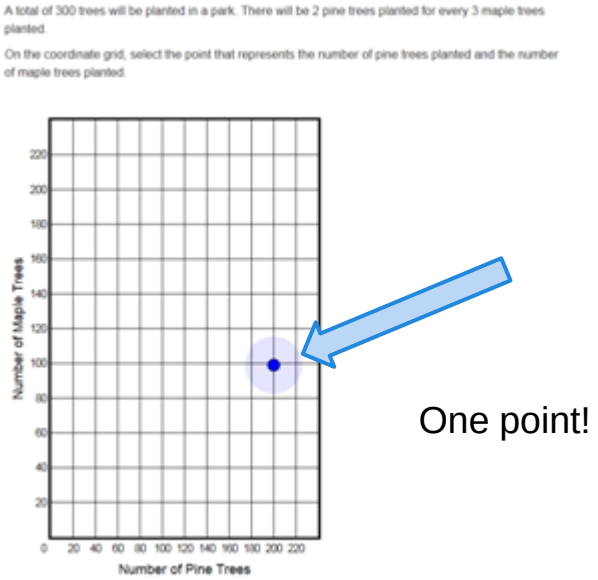
Enter your answer in the box.

gallons

Grade 6 EOY (Question 3 Calculator Part) Navigating Coordinate Grid

- Know how to navigate a coordinate grid.
- You can only plot one point with a click.

- **This problem is a great example of using the tools at the top.**
- **This problem has several key points that can be highlighted using the select tool.**



One point!

Grade 6 EOY (Question 4 Calculator Part) Text Box and a Toolbar

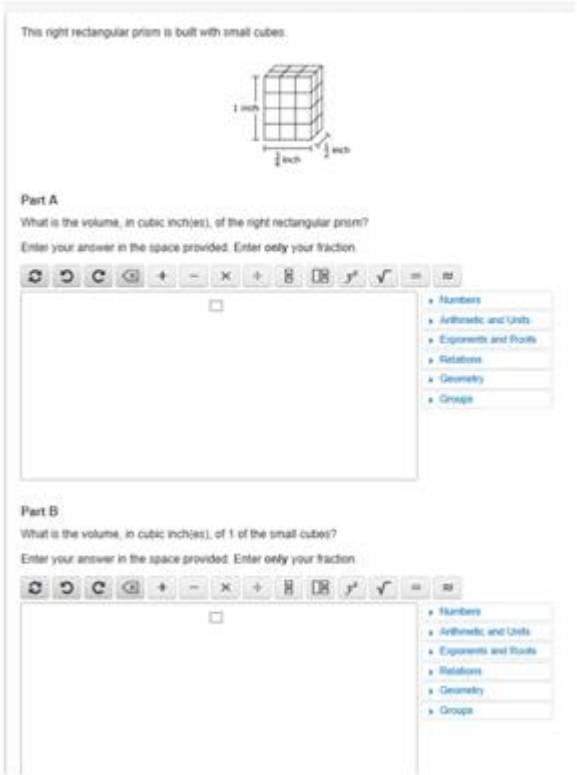
- This problem has a text box (Part A) and a toolbar portion (Part B).

Part A

Part B

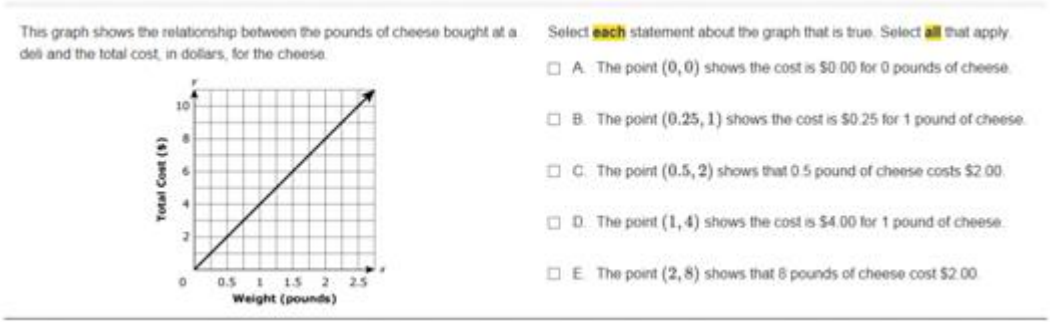
Grade 6 EOY (Question 10 Calculator Part) Two Toolbars

- This problem has two separate toolbar portions (Part A and Part B)



Grade 7 EOY (Question 1) Two Vocabulary

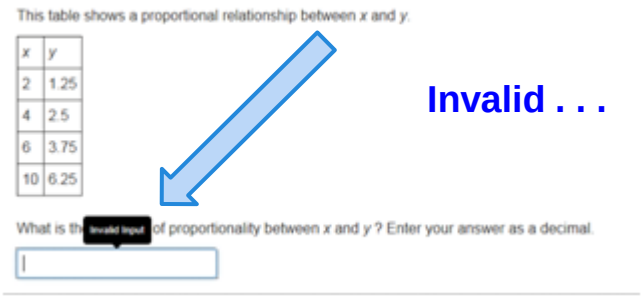
- You will need to pay attention to more than one bolded word in a question. (There are 2)

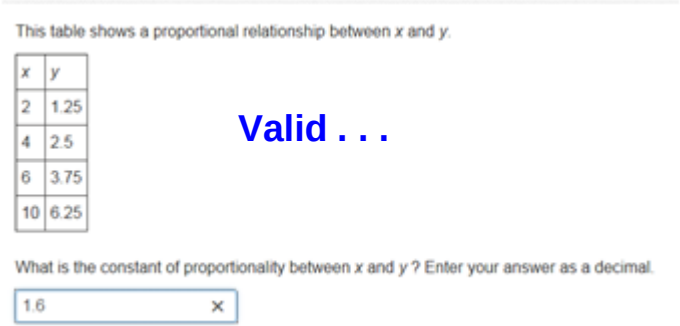


- **You must not only select "each" statement that is true, but you must also select "all" that apply.**
- **Notice the use of the highlighter to make each bold word stand out.**

Grade 7 EOY (Question 3) Decimal

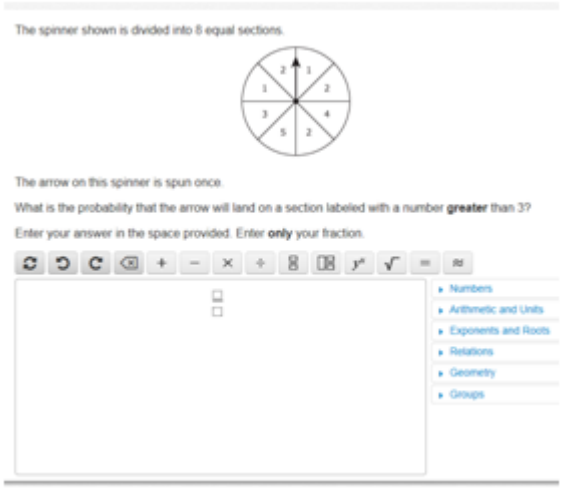
- You must know to utilize the . key to represent the answer as a decimal.
- If you use anything but a decimal, the words “invalid input” will appear.





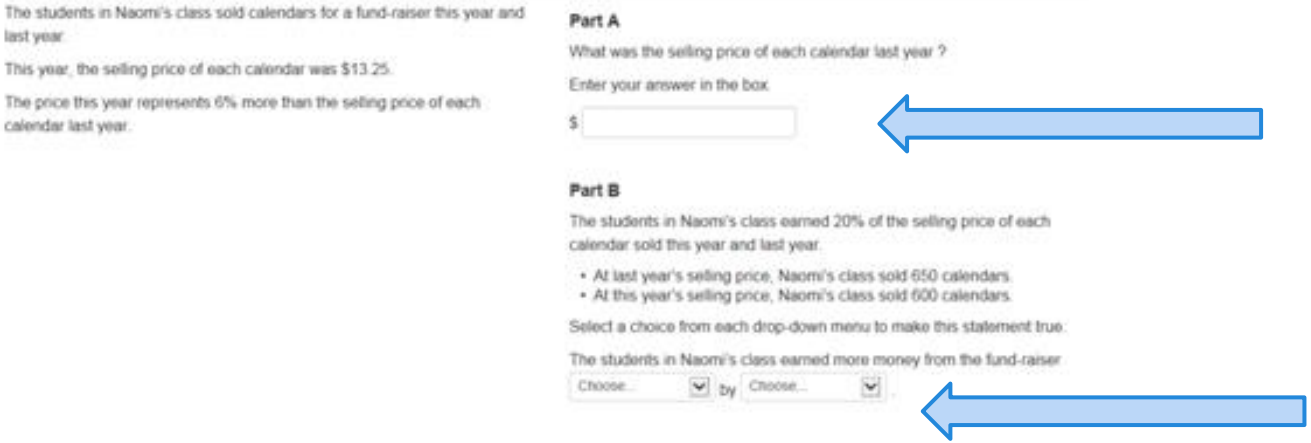
Grade 7 EOY (Question 1 Calculator Part) Spinner

- You may see a problem with a spinner.
- The highlighter does not work on the spinner.



Grade 7 (Question 6 Calculator Part) Text Box then Two Drop Downs

- You may see a text box first and then 2 drop downs.



- **First the text box . . .**
- **Then the drop downs . . .**
  - **Choose the year**
  - **Choose the $**

Grade 7 EOY (Question 11 Calculator Part) Multiple Clicks

- Recognize that you will have to make choices in clicking answers. All or none could be correct or a mix in the middle.

Misha has a cube and a right-square pyramid that are made of clay. She placed both clay figures on a flat surface.

Select each box in the table that identifies the two-dimensional-plane sections that **could** result from a vertical or horizontal slice through each clay figure.

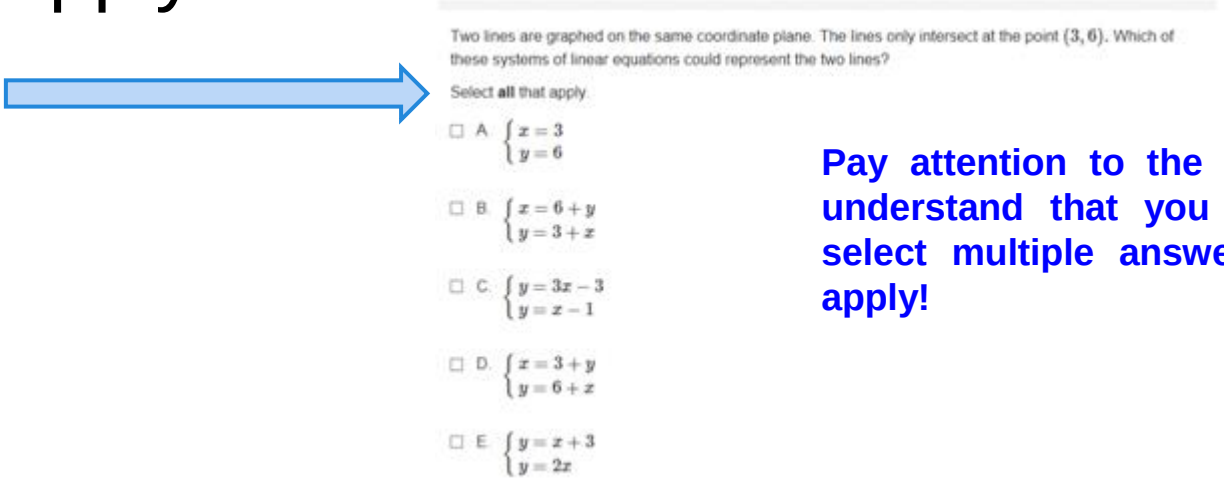
Clay Figure	Cube	Right-Square Pyramid
Triangle	☐	☐
Square	☐	☐
Rectangle That Is Not a Square	☐	☐

Grade 7 EOY (Question 12 Calculator Part) Three Text Boxes and a Toolbar Portion

- Be ready for 3 text boxes and then a final toolbar portion.

Grade 8 EOY (Question 3) Select All

- You must know you need to “Select all that apply.”



Two lines are graphed on the same coordinate plane. The lines only intersect at the point $(3, 6)$. Which of these systems of linear equations could represent the two lines?

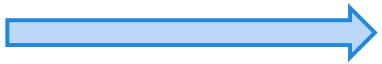
Select **all** that apply

- ☐ A. $\begin{cases} x = 3 \\ y = 6 \end{cases}$
- ☐ B. $\begin{cases} x = 6 + y \\ y = 3 + x \end{cases}$
- ☐ C. $\begin{cases} y = 3x - 3 \\ y = x - 1 \end{cases}$
- ☐ D. $\begin{cases} x = 3 + y \\ y = 6 + x \end{cases}$
- ☐ E. $\begin{cases} y = x + 3 \\ y = 2x \end{cases}$

Pay attention to the bold! You need to understand that you have the ability to select multiple answers! Select all that apply!

Grade 8 EOY (Question 4) Select Each Correct Statement

- You need to know that you need to “Select each correct statement.”



A relationship between x and y is defined by the equation $y = -\frac{4}{3}x + \frac{1}{3}$, where x is the input and y is the output. Which statements about the relationship are true?

Select **each** correct statement.

- ☐ A. y is a function of x.
- ☐ B. The graph of the relationship is a line.
- ☐ C. When the input is -3, the output is 4.
- ☐ D. When the input is -2, the output is 3.
- ☐ E. The y-intercept of the relationship is $(0,1)$.

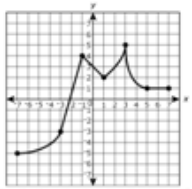
You must read to know that you can click more than one correct statement. You must select all that exist!

Grade 8 EOY (Question 6) Table

- You need to know that there is a table, and for each interval you must choose the correct choice horizontally.

Each interval must be chosen going horizontally for all six intervals.

The graph shows y as a function of x.

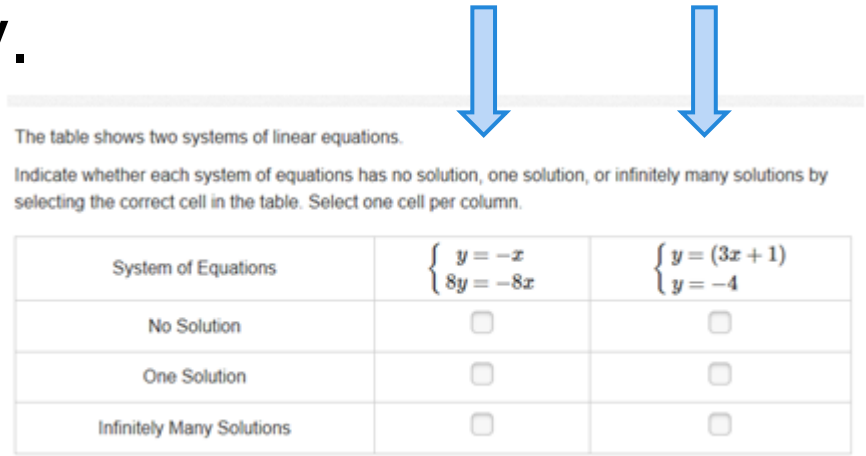


For each interval in the table, indicate whether the function is increasing, decreasing, or neither increasing nor decreasing over the interval.

Interval	Increasing	Decreasing	Neither Increasing nor Decreasing
$-7 < x < -3$	☐	☐	☐
$-3 < x < 1$	☐	☐	☐
$-1 < x < 1$	☐	☐	☐
$1 < x < 3$	☐	☐	☐
$3 < x < 5$	☐	☐	☐
$5 < x < 7$	☐	☐	☐

Grade 8 EOY (Question 7) Table

- You need to know that there is a table, and you must choose the correct answer vertically.



The table shows two systems of linear equations.

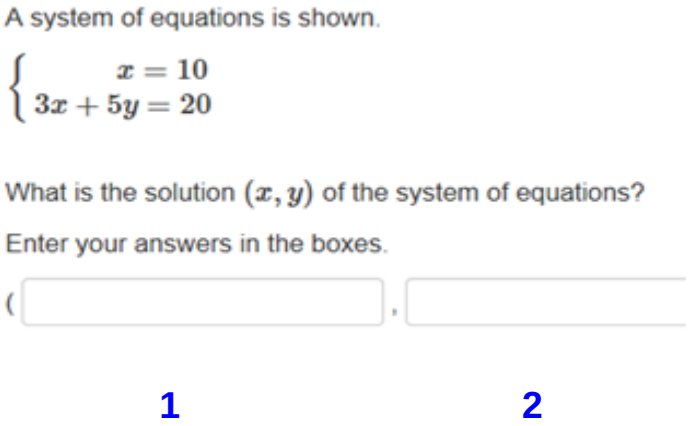
Indicate whether each system of equations has no solution, one solution, or infinitely many solutions by selecting the correct cell in the table. Select one cell per column.

System of Equations	$\begin{cases} y = -x \\ 8y = -8x \end{cases}$	$\begin{cases} y = (3x + 1) \\ y = -4 \end{cases}$
No Solution	☐	☐
One Solution	☐	☐
Infinitely Many Solutions	☐	☐

You must read and know to work vertically for each of the equations!

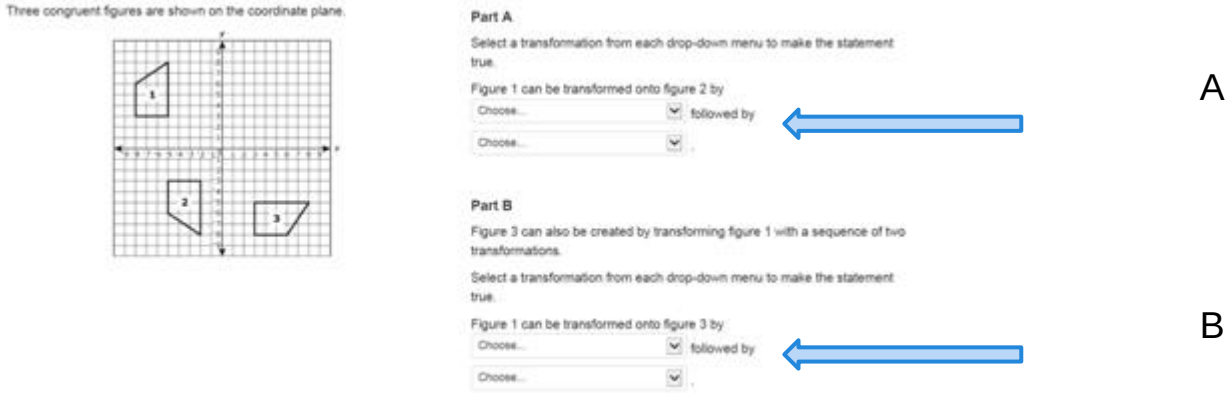
Grade 8 EOY (Question 11) Two Text Boxes

- You need to understand how to manipulate the text boxes.



Grade 8 EOY (Question 12) Two Sets of Two Drop Downs

- You need to know that there is a Part A (2 drop downs with 3 choices) followed by a Part B (same).



Grade 8 EOY (Question 16)

- You need to know that you must click “Line s” first; this will allow you to plot two separate points on the coordinate plane (which will appear in blue; this is the same color as the “Line s box.”
- You then need to know to do the exact same thing for “Line t.”

Grade 8 EOY (Question 16 Still!)

- You then need to know that you must click on the “Point P” section and then plot on the graph using the directions as listed.
- This problem involves you reading the full directions.
- It then involves you utilizing three separate functions in order to solve the problem.

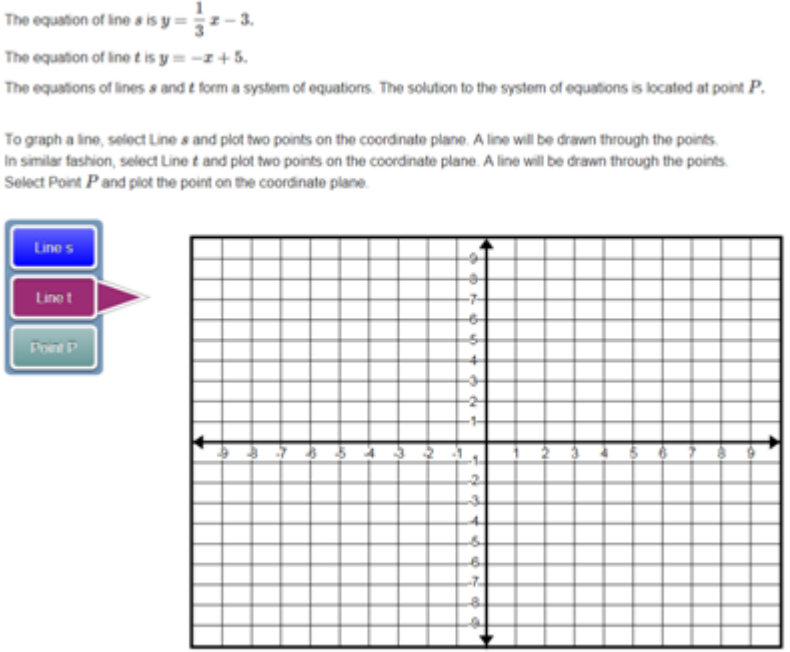
Grade 8 EOY (Question 16 Still!)

- Here is a clean picture.

1st

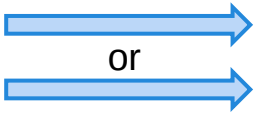
2nd

3rd



Grade 8 EOY (Question 17) Table

- You need to know that there is a table, and you must enter click the circle for “linear” or “non-linear” for each of six portions.

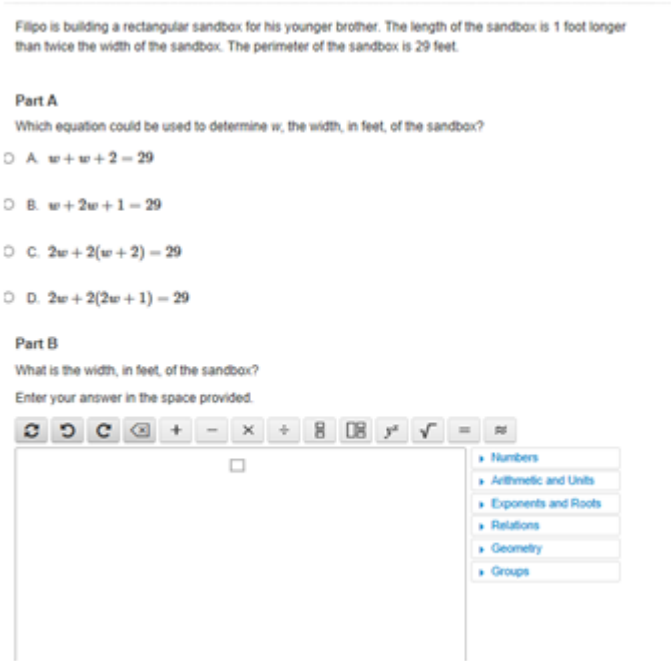


Classify each equation as defining y as a linear or non-linear function of x. Select one cell per column.

function	$y = 7 \times 4x$	$y = (2x + 5)^2$	$y = 10x^2$	$y = 5x - 3$	$y = \frac{x}{2}$	$y = 2x^3 + 1$
linear	○	○	○	○	○	○
non-linear	○	○	○	○	○	○

Grade 8 EOY (Question 2 Calculator Part) Multiple Choice and Toolbar

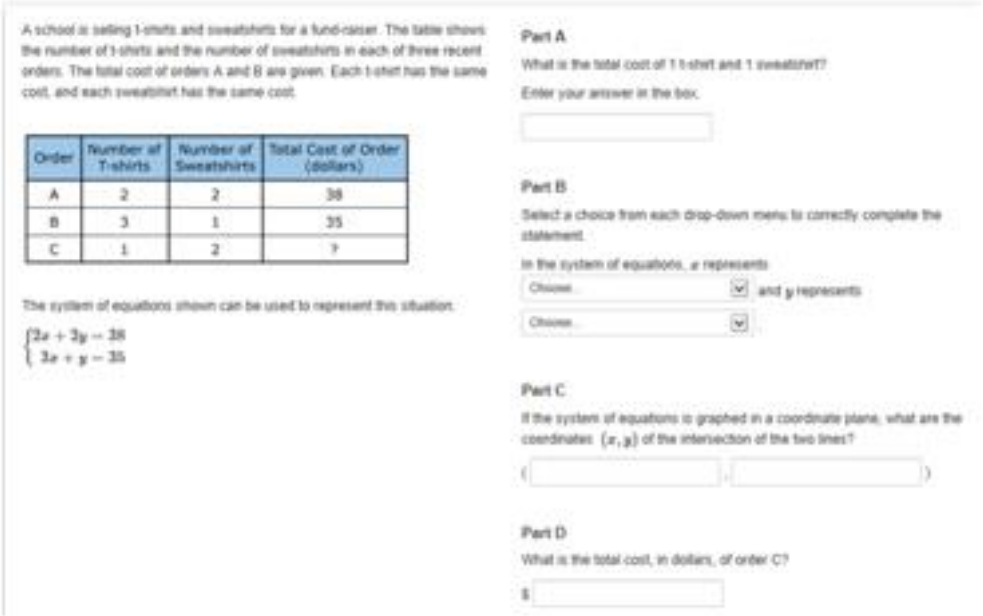
- This question has a multiple choice (Part A) and a toolbar portion. (Part B).



Grade 8 EOY (Question 4 Calculator Part) Four Part Question

- This question has four parts.

- **Part A Text Box**
- **Part B Two Drop Downs**
- **Part C Two Text Boxes**
- **Part D Text Box**



A school is selling t-shirts and sweatshirts for a fund-raiser. The table shows the number of t-shirts and the number of sweatshirts in each of three recent orders. The total cost of orders A and B are given. Each t-shirt has the same cost, and each sweatshirt has the same cost.

Order	Number of T-shirts	Number of Sweatshirts	Total Cost of Order (dollars)
A	2	2	38
B	3	1	35
C	1	2	?

The system of equations shown can be used to represent this situation.

$$\begin{cases} 2x + 2y = 38 \\ 3x + y = 35 \end{cases}$$

Part A

What is the total cost of 1 t-shirt and 1 sweatshirt?

Enter your answer in the box.

Part B

Select a choice from each drop-down menu to correctly complete the statement.

In the system of equations, x represents Choose... and y represents Choose...

Part C

If the system of equations is graphed in a coordinate plane, what are the coordinates (x, y) of the intersection of the two lines?

(,)

Part D

What is the total cost, in dollars, of order C?

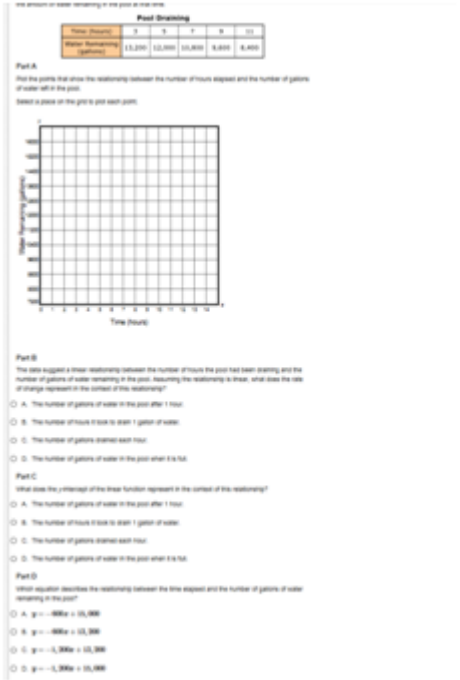
$

Grade 8 EOY (Question 7 Calculator Part)

- This question has four parts.
- Even with minimizing the screen (Control - and +), you will have to navigate around the screen in order to see all of the parts.
- There is a Part A (grid a point)
- Parts B-D are multiple choice

Grade 8 EOY (Question 7 Calculator Part)

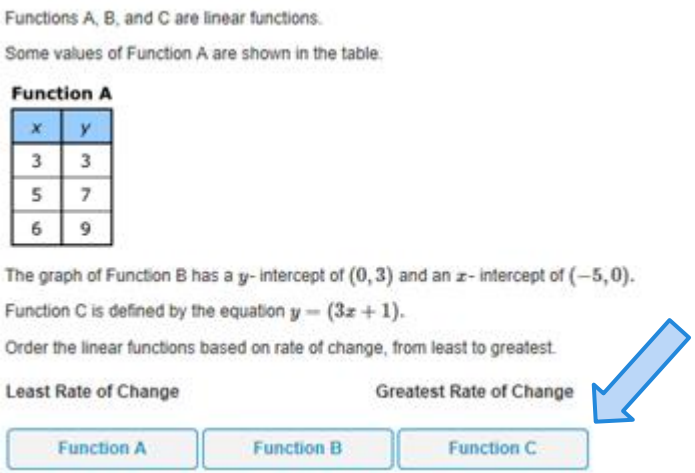
- Here is a picture . . .

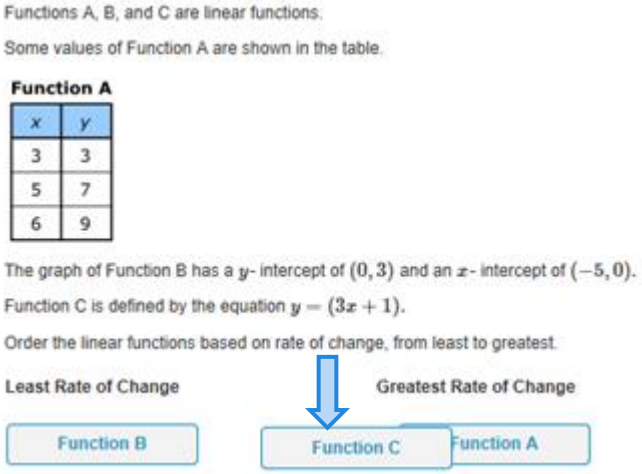


- **Please notice how even at this zoom out stage that all of the problem is not visible for you.**
- **You will have to understand how to maneuver around this problem.**

Grade 8 EOY (Question 10 Calculator Part) Moving Boxes

- This problem involves the moving of three separate boxes (Function A - B - C)





Notice how the Function C is moving. You need to drag it on a linear path to move the box. It is currently being moved to the "Greatest Rate of Change."