

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
 - o 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:

- The spring 2014 release will not have scoring capability built into the tool. PARCC will provide answer keys and rubrics.
- 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:

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

- 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

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

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

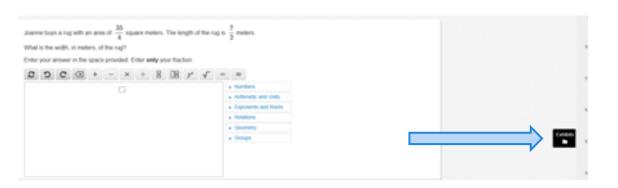
- www.marlboro.k12.nj.us
 - Curriculum Tab
 - PARCC Important Information
 - PARCC End of Year Mathematics Explanation Videos narrated by Dr. Eric Hibbs, Superintendent

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

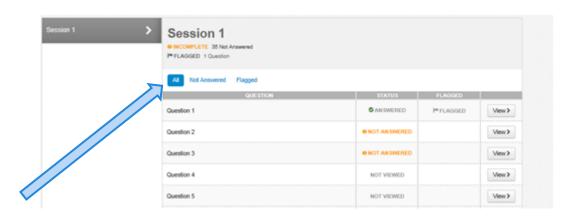
- Make sure to really understand how this works.
- If you answer a question, this will appear in the "Status" section . . .
- If you viewed the question but didn't answer, this will appear in the "Status" section.

9 NOT ANSWERED

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

Review and Flag

Overall Picture . . .



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

- Notice the three options
- ANSWERED
- 9 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.

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.





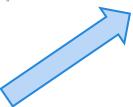
Vocabulary

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

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

What is the expression written in exponential form?

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



- 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)

- 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)

- 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)

- 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)

- 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)

- 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)

- 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)

- Select the correct symbol from each dropdown 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)

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

- 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)

- 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)

- 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)

- 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)

- 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)

- 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)

- 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)

- 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)

- 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)

- 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)

- Select the correct number from each dropdown 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)

- 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)

- 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)

- 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)

- 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)

- 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)

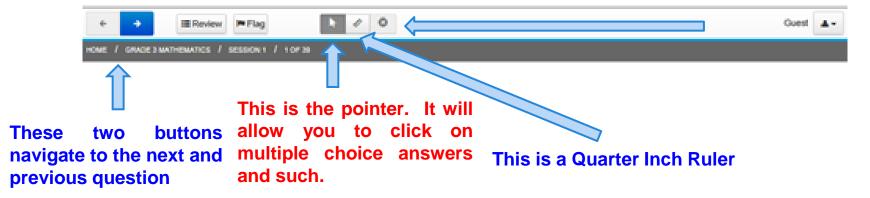
- Classify each equation as defining y as a linear or non-linear function of x. Select one cell per column. (G8Q17)
- Select the point on the number line that best approximates the location of ____. (G8Q19)
- Based on the results of the survey, which statements are true? Select each correct statement.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

- 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)

- 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)

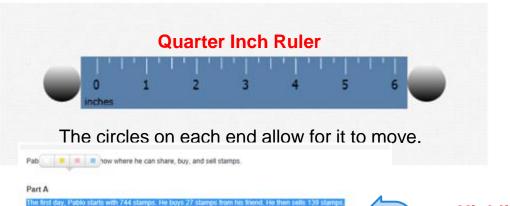
Grade 3 Toolbar Always at the Top

 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.



Grade 3 Toolbar Always at the Top

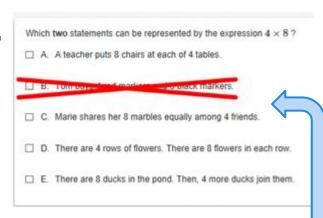
Here are pictures of the tools.



Part A The first day, Pablo starts with 744 stamps. He buys 27 stamps from his filtend. He then sets 150 stamps What is the total number of stamps that Pablo has after the first day of the stamp show? Enter your answer in the box. Stamps Part B The second day, Pablo buys 6 packages of car stamps. Each package has 6 car stamps. Pablo shares these car stamps equally among himself and 3 friends. What is the total number of car stamps that Pablo and each of his 3 friends receive? Enter your answer in the box.

Highlighting

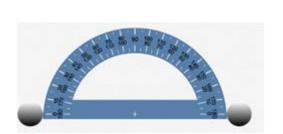
You can select information and highlight it in the problem.



- 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.

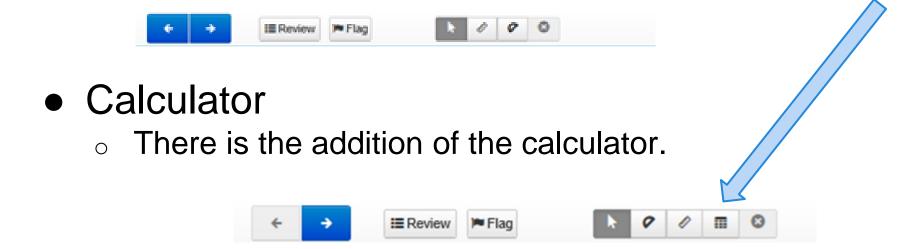
Grade 5 Toolbar Always at the Top

 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)



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



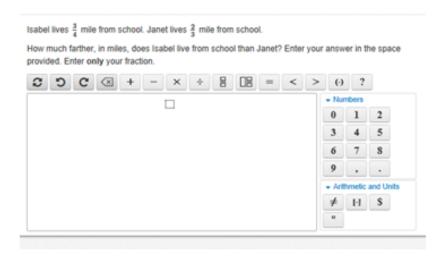
Grade 4-5 Tools You Will See Embedded in Certain Problems

• 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

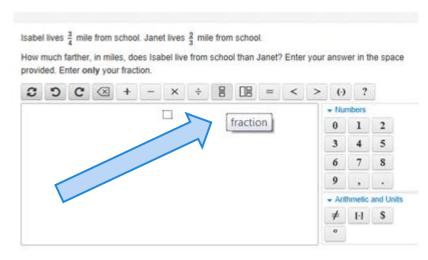
 You must understand the toolbars. You need to understand all that apply here.



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

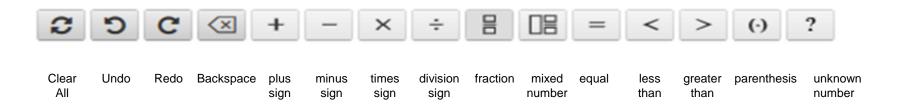
 Hover over each top toolbar in order for the purpose to appear.

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

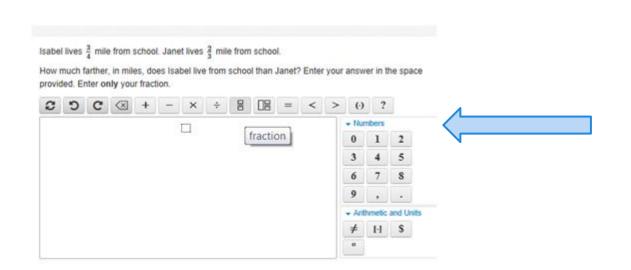
Top Toolbar



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!)

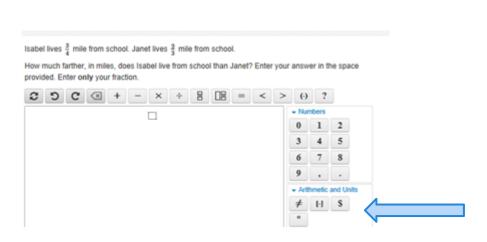
Numbers



- 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!)

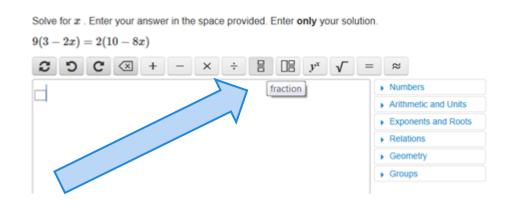
 You must understand the toolbars. You need to understand all that apply here.

CC	C	+ -	×	÷		y^x	√	=	×	
-									▶ Nur	mbers
_								-10	▶ Arit	hmetic and Units
									Exp	onents and Roots
								-10	▶ Rel	ations
								-10	▶ Ge	ometry
									▶ Gro	ups

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

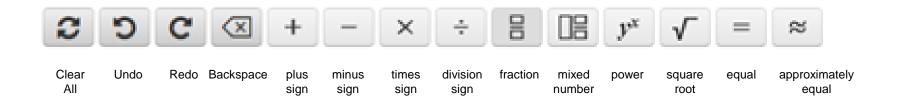
 Hover over each top toolbar in order for the purpose to appear.

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!)

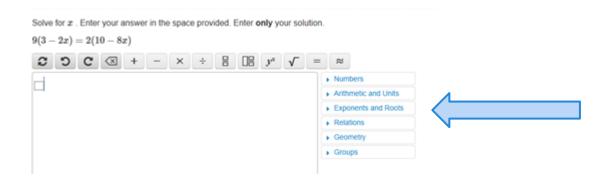
Top Toolbar



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.

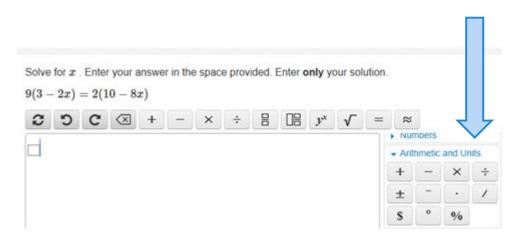
- Numbers
- Arithmetic and Units
- Exponents and Roots
- Relations
- Geometry
- Groups

Numbers



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

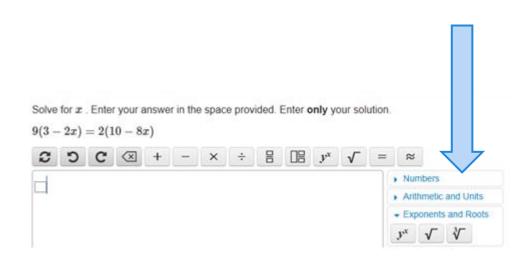
Arithmetic and Units



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

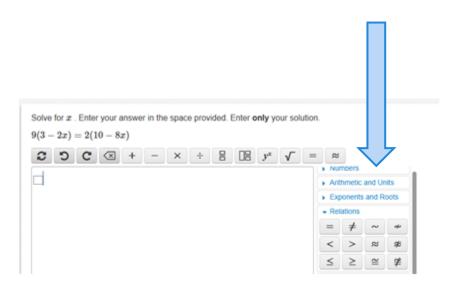
Exponents and Roots



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

- power
- square root
- cube root

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

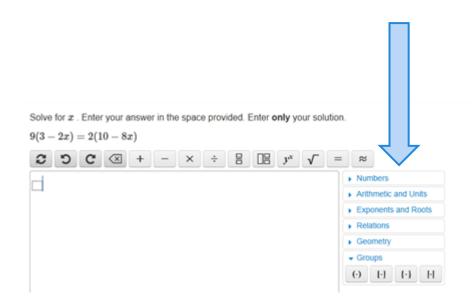
Geometry



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

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.



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!

Which two statements can be represented by the expression 4 x 8?

A. A teacher puts 8 chairs at each of 4 tables.

B. Tom buys 4 red markers and 8 black markers.

C. Marie shares her 8 marbles equally among 4 friends.

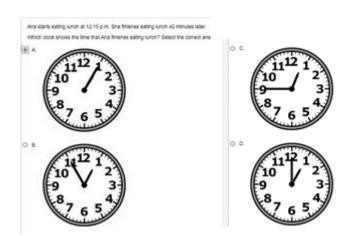
D. There are 4 rows of flowers. There are 8 flowers in each row.

E. There are 8 ducks in the pond. Then, 4 more ducks join them.

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.

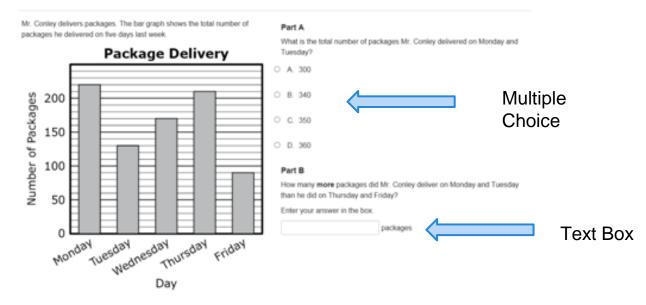


This is a great example of how you can use the Control - and + keys on the keyboard in order to see the entire problem. This is your choice. If you don't zoom out, then you will have to move around with your mouse to see the entire screen.

Grade 3 EOY (Question 6) Part A/B

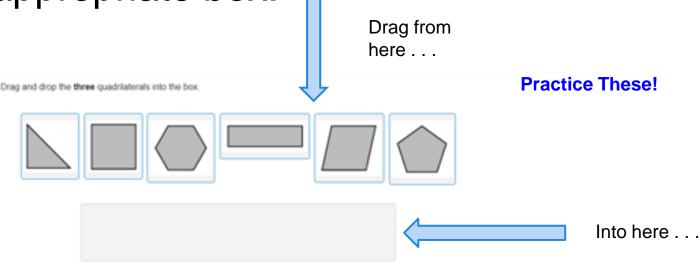
 Part A (Multiple Choice Click) - Part B (Text Box)

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



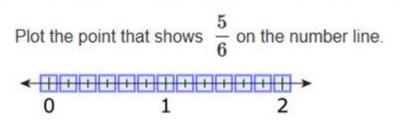
Grade 3 EOY (Question 7) Drag and Drop

 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.

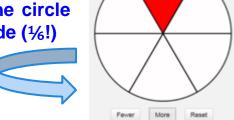


Grade 3 EOY (Question 17) Dividing a Circle

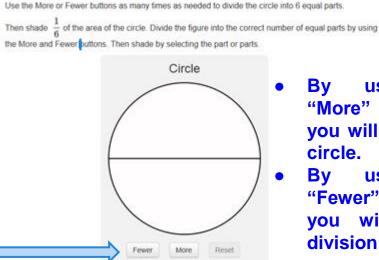
 You must know how to use the Fewer, More, and Reset buttons for this task. Then click

Finally, you must click the portion of the circle you want to shade (1/4!)

to shade



Circle



- 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.

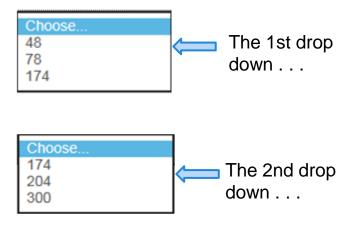
This is how the problem looks before you drag and drop the correct answers.

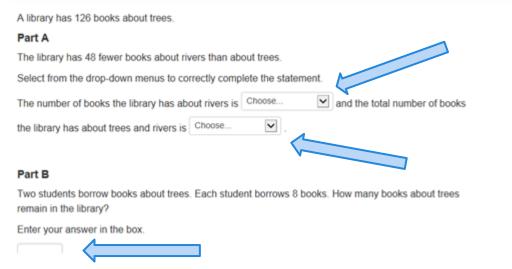
The proper answers were dragged and dropped into the corresponding boxes.

Drag and drop the correct area into the box below each shaded rectangle.

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

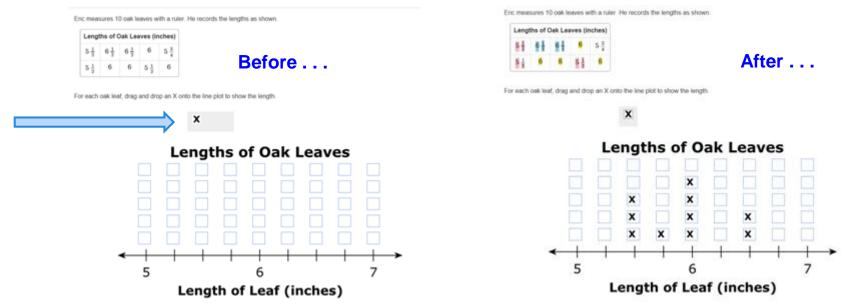
 You must know that Part A has 2 drop down boxes. Each must be selected. Part B is a text box.





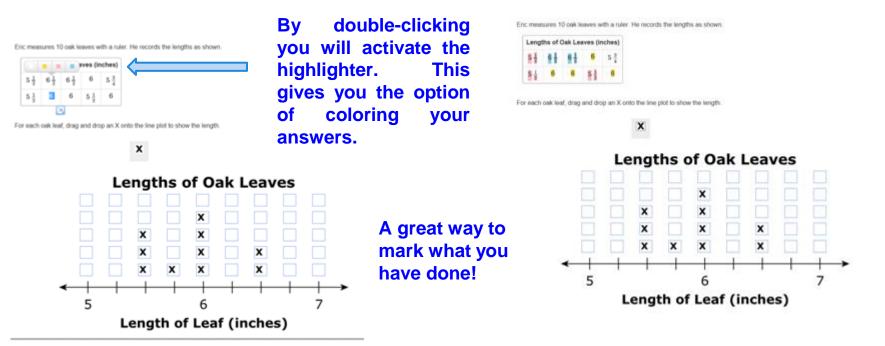
Grade 3 EOY (Question 33) Drag and Drop to a Line Plot

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



Grade 3 EOY (Question 33) Double Click Highlight

Notice the "double-click highlight"



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

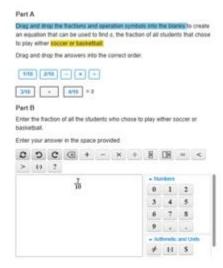
- Notice that you have to drag and drop the fractions with the correct operation into the correct boxes for Part A.
- For Part B, you need to add the fractions from Part A and enter them into the space in Part B.
- This involves knowing the fraction button.

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

Here is a finished picture . . .



Sport	Fraction of All Students	
Soccer	- ta	
Football	- A	
Hockey	à	
Backetoat	4	



- 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.

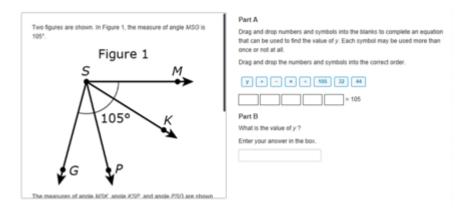


Grade 4 EOY (Question 17) Drag and Drop and Text Box

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

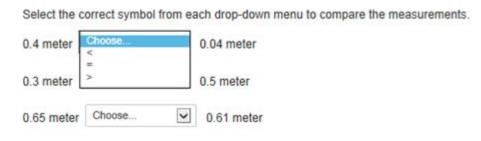
 You need to read to understand the difference between "appear" and "has."

Appears to have at least 2 parallel sides	Has at least 2 perpendicular sides
0	0
0	0
	0
	0
0	0

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

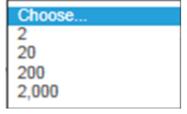
There are 2 Drop Downs with place value.



Full Problem

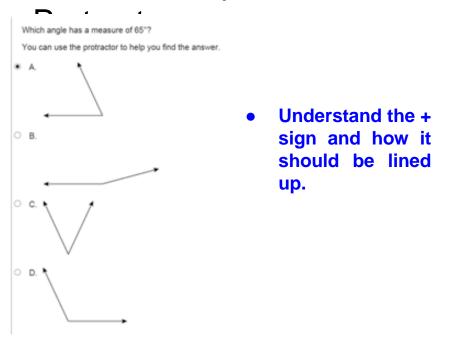
Drop Downs...

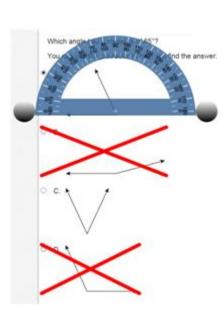




Grade 4 EOY (Question 26) Protractor

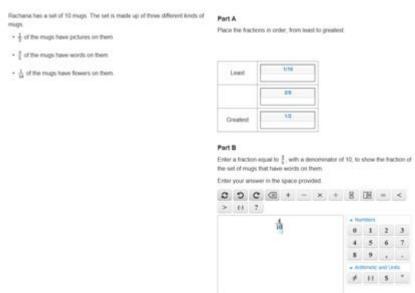
You must be proficient at using the protractor.





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

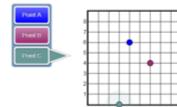
 Understand you may have a placement in order problem with a toolbar problem.



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.

Graph points A, B, and C on the coordinate plane. Point A should be located at (4, 6), point B should be located at (6, 4), and point C should be located at (3, 0). Select the "Point A" button and plot the point. Select the "Point C" button and plot the point. Select the "Point C" button and plot the point be sure to graph all three points.



- 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.

Drag and drop one number into each box. When you are finished, the number inside each box should match the number below the box when rounded to the nearest hundredth.

5.025 5.117

5.066 5.079 5.103 5.108

5.07 5.08 5.10 5.11

- 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!

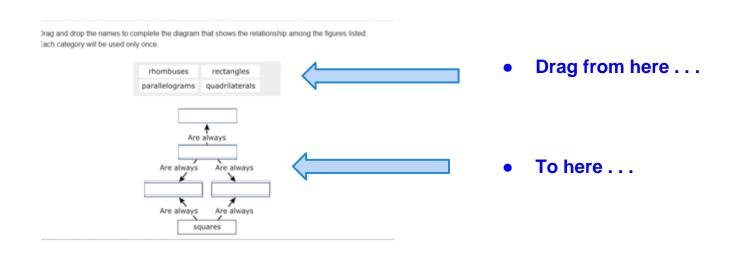
Grade 5 EOY (Question 8) Not to Scale

 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

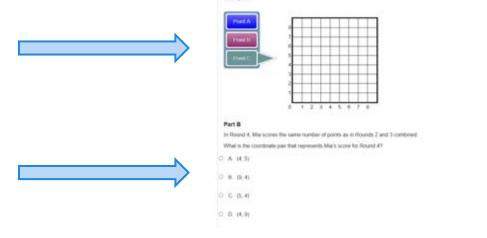
 You must drag and drop to represent relationships that exist among figures.



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.



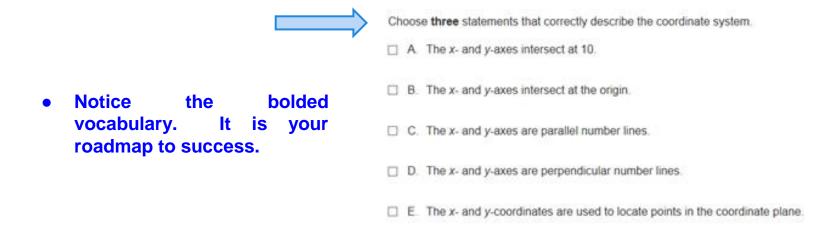
Grade 5 (Question 29) Three Drop Downs

You may see three drop downs in one problem.

Select a phrase from each	drop-down men	nu to correctly complete each sentence
The product of $\frac{3}{5}$ and 4 is	Choose	☑ 4.
The product of $1\frac{1}{2}$ and 2 is	greater than	v 2.
The product of $\frac{5}{2}$ and $\frac{13}{4}$ is	Choose	▼ 13 4 .

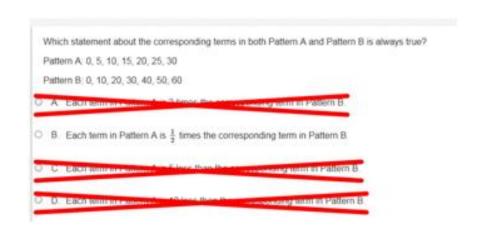
Grade 5 EOY (Question 32) Three Correct Statements

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



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."



- 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.

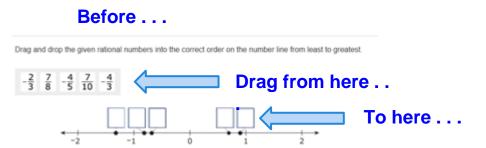
Grade 6 EOY (Question 2) Drag and Drop Words

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

spaces for three	The median number of points scored by 9 players in a basket points scored by the same basketball players in the same gar	
	Drag and drop the correct word or phrase to each row of the true, take, or does not contain enough information.	table to indicate whether the statement is
Choices	True False Not Enough Information	Spaces ,
	Statements	
	At least one player scored 12 points.	
	The greatest number of points scored could be 19 points.	
	The mean number of points is greater than 12 points.	
	If the greatest number of points scored is 16, then the least number of points scored is 4	

Grade 6 EOY (Question 5) Drag and Drop

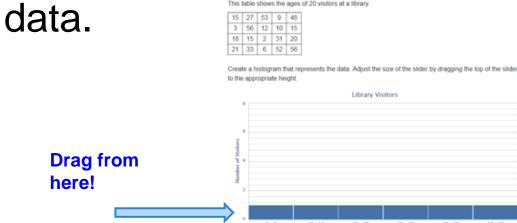
 You need to know how to drag and drop items into the correct order on the number line.



- 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



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.

Create a histogram that represents the data. Adjust the size of the slider by dragging the top of the slider to the appropriate height.



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



This table shows the ages of 20 visitors at a library

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

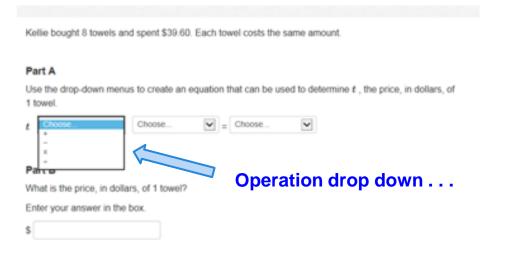
 You need to utilize three drop downs and then enter your final answer in the text box.

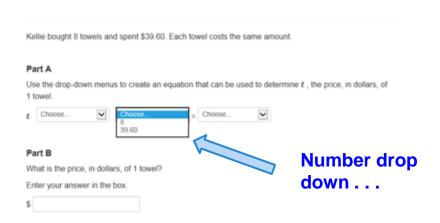
Part A	a Thur
Use the drop-down menus to create an equation that can be used to determine $m{t}$, the price, in dollars, of $m{t}$ towel.	• Thre
Choose Choose Choose	• One
Part B What is the price, in dollars, of 1 towel?	• Two

- 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	i. He continues to drive at the same rate.
How many hours will it take Ch	ad to drive the 672 miles?
Enter your answer in the box.	
	hours
Part C	
Chad stopped and filled the ca gallons of gas.	r with 11 gallons of gas. He had driven 308 miles using the previous
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
	gaioro

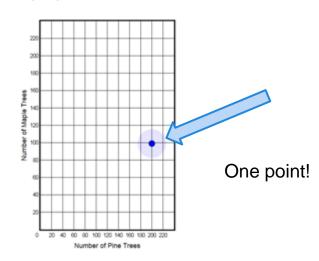
Grade 6 EOY (Question 3 Calculator Part) Navigating Coordinate Grid

- 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.

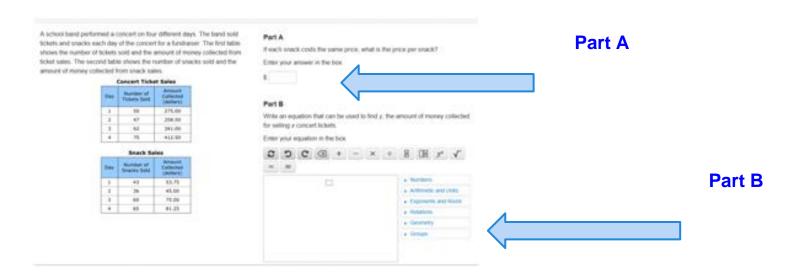
A total of 300 trees will be planted in a park. There will be 2 pine trees planted for every 3 maple trees planted.

On the coordinate grid, select the point that represents the number of pine trees planted and the number of maple trees planted.



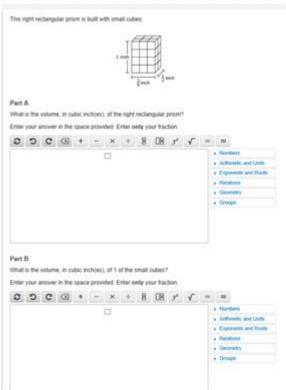
Grade 6 EOY (Question 4 Calculator Part) Text Box and a Toolbar

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



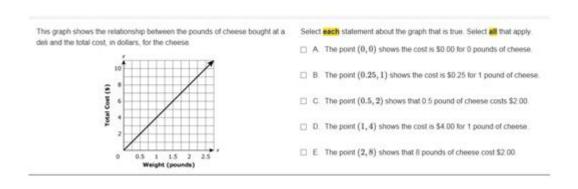
Grade 6 EOY (Question 10 Calculator Part) Two Toolbars

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



Grade 7 EOY (Question 1) Two Vocabulary

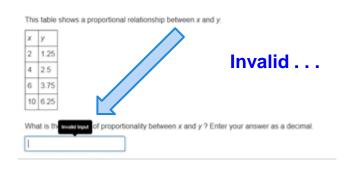
 You will need to pay attention to more than one bolded word in a question. (There are 2)

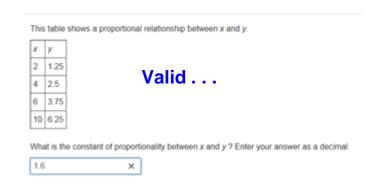


- You must not only select "each" statement that is true, but you must also select "all" that apply.
- Notice the use of the highlighter to make each bold word stand out.

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.



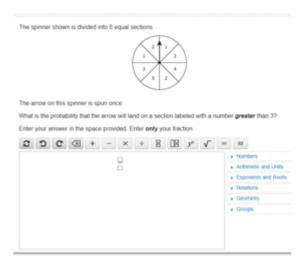


Grade 7 EOY (Question 1 Calculator Part) Spinner

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.

he students in Neomi's class sold calendars for a fund-raiser this year and ist year, the selling price of each calendar was \$13.25. he price this year represents 6% more than the selling price of each alendar last year.	Part A What was the selling price of each calendar last year ? Enter your answer in the box.
	Part B The students in Naomi's class earned 20% of the selling price of each calendar sold this year and last year.
	 At last year's selling price, Naomi's class sold 650 calendars. At this year's selling price, Naomi's class sold 600 calendars.
	Select a choice from each drop-down menu to make this statement true:
	The students in Naom's class earned more money from the fund-raiser Choose

- 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		

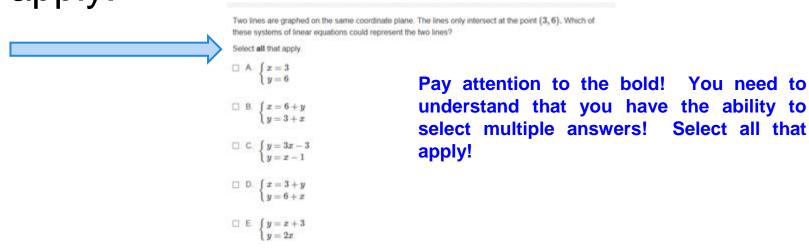
Grade 7 EOY (Question 12 Calculator Part) Three Text Boxes and a Toolbar Portion

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

Part D Topic prior amover in the loss. Logic Part B The many final evenues in the loss. Logic Part B The many final evenues of inverse should be moved with 50 final evenues of vales to make the channing solution? Differ prior amover in the loss. Total prior amover in the loss. Total prior amover in the loss. Total prior amover in the loss. The bottle contains it quart of vales. The bottle contains in the loss. The bottle contains in the loss. The bottle contains in the loss. The bottle contains on the loss. The bottle contains on the loss. The bottle contains on the loss in the surface of the cleaning solution. The bottle contains on the loss in the surface of the cleaning solution. The bottle contains on the loss in the surface of the cleaning solution. The bottle contains on the loss in the loss of the l			
Critic place amoves in this loss. Part B New cases the discussion of inveger should be record with 60 fluid courses of owiet to make the changing solution? Entire your amoves in the loss. Notice: Part C The bottle contains 1 guart of vinegar. While it to total execution of quarts of cleaning solution fluid (an the made soring the entire bottle of congo?) Entire your amove in the loss. guarth of changing solution. Part C A going failth fluids up to 1 cap of the cleaning solution. Part C A going failth fluids up to 1 cap of the cleaning solution. C A going solid fluids to the congo provided finite solid parts fluids. C A form the specified on the loss of the cleaning solution. C A form the specified on the loss of the cleaning solution. C A form the specified of the loss of the cleaning solution. C A form the specified of the loss of the cleaning solution or longer? Entire your answer on the points provided finite solely part fluids. A formation and Units A formation A formation A formation and Units A formation A formation A formation and Units A formation A fo	Pwt A		
Part B The man many fisial outcome of inverger should be recent with 50 fluid come as at value to make the channing solution? Differ your amover in the low. Solution Solution Solution First C The bodie contains it is just at overage: While it is take available of quarts of channing solution fluid can be made soring the entires bottle of overage? Enter your amover in the low. Solution is obtained to be a compart of the channing solution. First C A store solide frame up to 1 cop of the channing solution. First C Solution is possessor in the lower provided frame solidy part fraction. Solution is considered from soil of the channing solution in changes? Colleges your amover in the lower provided frame solidy part fraction. Solution is considered in the channing solid time.	How many case of w	Produkts granust the country with 1 cap of everyor to make the cleaning solution?	
Part B How many field remarks of integer should be reced with \$5 foul concess of color to make the cheaning solutions? Either your arrower in the tips. Bodices Part C The bodie contains 1 is you'll diverage: What is the total member of quarts of cheaning solution that can be media soing the entres trottle of integer? Either your arrower in the tips. gouth of cheaning solution Part D A spray boths notic to be 1 cap of the cheaning solution. When the spray contains is the tips. The cheaning solution Part D C C C C C C C C C C C C C	Order your answer in	the box.	
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Either your sense or the job. Part C The bothe contains I guart of vinejar What is the later associate of quarts of classing selection that can be made using the entire trottle of vinejar. South your amount in the job. ———————————————————————————————————	Part B		
Part C The bottle contains 1 years of vineigns: What is to take reaction of quarts of cleaning selection that can be musto soring the entire trottle of vineigns? Enter your answer in the top. push of cleaning solution Part C A special bottle fraction up to 1 top of the cleaning solution Part C A special bottle fraction up to 1 top of the cleaning solution. Part C C C C C C C C C C		cak of image should be mixed with 85 food curries of valer to make the cleanor	¥
Part C The boths contains 1 guart of vineigns White it to total number of quarts of cleaning selection that can be made upon the entire trottle of vineigns [College your amount in the logs.] [Quarth of cleaning solution [Part C) A Spring traffic hastle up to 1 cap of the cleaning solution. When the spring traffic is tall, what traction of the cheaning solution is integer? [College your amount in the spring provides Clime only your buckers.] [College your amount in the spring provides Clime only your buckers.] [College your amount in the spring provides Clime only your buckers.] [College your amount in the spring provides Clime only your buckers.] [College your amount in the spring provides Clime only your buckers.]	Ditter your secures in:	the law.	
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The bottle contains 1 (year) of viveger White is to later existence of epochs of cleaning selection that (an tipe made soring the entire hottle of oranger) Entire your arrower in the tou. Specially a contained on the plan. Part 0 A sorin solder fraction up to 1 cap of the cleaning solution. When the special pottle is full, what facilities of the cleaning solution is compact? Collegious procure in the special provided. Gines solly price facilities. Specially Collegious and solution is the special provided in the solid price facilities. Specially Collegious and solution is the special provided in the solid price facilities. Specially Collegious and solution is considered in the solid price facilities.			
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Control your amount in the loss. punch of steaming solution			
push of sharing solution Part 0 A spine leafler feaths up to 1 cyc of the steaming solution. When the spine pushe is fall, what facilize of the cheaning solution is strenger? Cotte year arrows in the spine provides Crime only year facilize. CO O C O + - × + B DB × = M - Numbers - Additional and Units - Experience and Room - Residence	The bottle contains to	Special of wregain	
Part D A typing bothle featile up to 1 cap of the intering stabilitie. When the spring totals in St.L. what tracking of the obeling solution is integer? Entire part answer in the space provided. Entire early part tracking. C D C C + × + × + R DR y* * Newton and Softia * Entering * Allowant and Softia * Entering * Entering * Allowant and Softia * Entering	What is the bolar man		
A spray traffic fronts up to 1 cup of the cleaning studies. When the passip staffic is full, what traction of the observing solution is compact? Cottle passip show in the sprace provided. Critic staffy yeld traction is excepted. Country to the country traction of the country yeld traction. By Country traction of the country yeld traction. A structure of the country traction is the country yeld traction. Country traction of the country traction of the country traction.	What is the total man wheeper?	nder of quarts of cleaning untation that can be made using the entire bottle of	
A spray traffic fronts up to 1 cup of the cleaning studies. When the passip staffic is full, what traction of the observing solution is compact? Cottle passip show in the sprace provided. Critic staffy yeld traction is excepted. Country to the country traction of the country yeld traction. By Country traction of the country yeld traction. A structure of the country traction is the country yeld traction. Country traction of the country traction of the country traction.	What is the total man wheeper?	where of quarts of cleaning unlightes that can be made using the entire boths of the law.	
A spray traffic fronts up to 1 cup of the cleaning studies. When the passip staffic is full, what traction of the observing solution is compact? Cottle passip show in the sprace provided. Critic staffy yeld traction is excepted. Country to the country traction of the country yeld traction. By Country traction of the country yeld traction. A structure of the country traction is the country yeld traction. Country traction of the country traction of the country traction.	What is the total man wheeper?	where of quarts of cleaning unlightes that can be made using the entire boths of the law.	
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Citie pair prover in the pairs provided. Gine settly pair fraction. C. D. C. G. + - × + B. DE P. C M. I hardless Advances and Such Basics.	What is the total sum whose? Effect your attends in Part O	nder of querts of cleaning solution that (an be made using the error trothe of the lays. - puerts of sinering existen	
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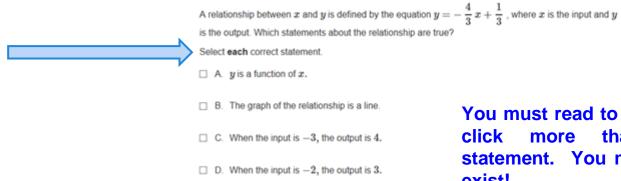
Grade 8 EOY (Question 3) Select All

 You must know you need to "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."



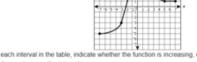
E. The y-intercept of the relationship is (0,1).

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.



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			0
-3 < x < 1			0
-1 < x < 1			0
1 < x < 3			0
3 < x < 5			0
5 < x < 7			0

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	$\left\{egin{array}{l} y=-x \ 8y=-8x \end{array} ight.$	$\begin{cases} y = (3x+1) \\ y = -4 \end{cases}$
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.

A system of equations is shown.

$$\begin{cases} x = 10 \\ 3x + 5y = 20 \end{cases}$$

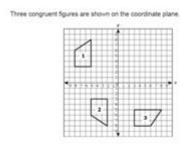
What is the solution (x, y) of the system of equations?

Enter your answers in the 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).



Part A		
Select a transformation true.	from each drop-down menu to make the statement	_
Figure 1 can be transfo	ormed onto figure 2 by	Α
Choose	followed by	
Choose	₩.	
Part B Figure 3 can also be on transformations.	reated by transforming figure 1 with a sequence of two	
Select a transformation true.	from each drop-down menu to make the statement	
Figure 1 can be transfor	ormed onto figure 3 by	В
Choose	followed by	_
Choose	☑.	

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. The equation of line a is $y = \frac{1}{3}x - 3$.

The equation of line
$$s$$
 is $y = \frac{1}{3}x - 3$

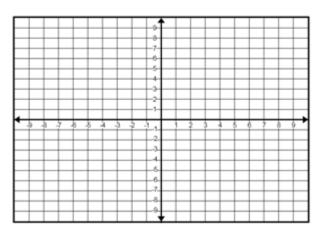
The equation of line t is y = -x + 5.

The equations of lines a and t form a system of equations. The solution to the system of equations is located at point P.

To graph a line, select Line s and plot two points on the coordinate plane. A line will be drawn through the points. In similar fashion, select Line t and plot two points on the coordinate plane. A line will be drawn through the points. Select Point P and plot the point on the coordinate plane.







Grade 8 EOY (Question 17) Table

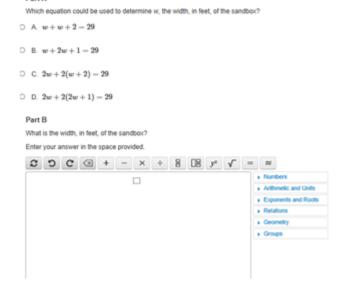
 You need to know that there is a table, and you must enter click the circle for "linear" or "non-linear" for each of six portions.

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 o

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

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

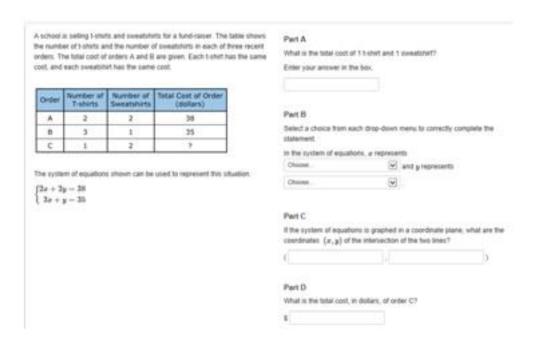
This question has a multiple choice (Part A) and a toolbar portion.
 (Part B).
 Filipo is building a rectangular sandbox for his younger brother. The tength of the sandbox is 1 foot longer than hirde the width of the sandbox. The perimeter of the sandbox is 29 feet.



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



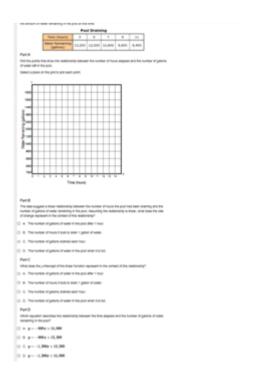
Grade 8 EOY (Question 7 Calculator Part)

- 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)

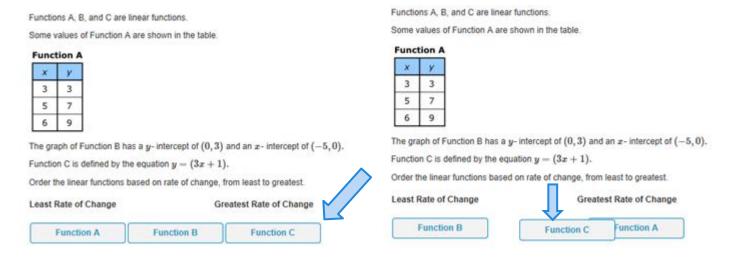
Here is a picture . . .

- 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."