

END OF COURSE TEST FACTS





9–12 Math: Algebra and Geometry

Question Types

- Multiple Choice
 - select the one correct answer
- Editing Task Choice
 - o select answer from drop-down menu
- Multi-Select
 - select all correct answers (more than 1)
- Selectable Hot Text
 - Highlight correct answers (could be just 1 or more than 1)
- Graphing Response Item Display
 - o use point, line, and arrow tools to graph
- Matching
 - check a box to indicate matching information from columns and rows
- Equation Editor
 - o type your answer in the response box

More Info:

For more detailed information including sample questions, please visit:

https://fsassessments.org/families.html

Number of Questions

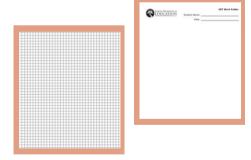
Both the Algebra 1 and Geometry tests contain 45–50 questions. Students will take the test in one session.

Student Tools

Students can use the online or a handheld scientific calculator.

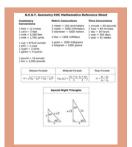


Students will receive a work folder containing blank paper and graph paper.



Students can use the online or hard copy reference sheet.





^{*}Questions could contain a combination of the types above*

ITEM TYPE EXAMPLES

Doug has 8 square pieces of wood. Each piece of wood has a side length of s centimeters. The total area of all 8 pieces of wood is 200 square centimeters.

Create a quadratic equation Doug can use to find the side length of each piece of wood.

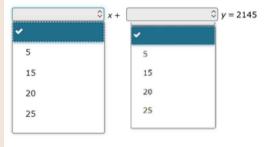
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7	8	9	<	≤	=	≥	>			
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		8	sin	cos	tan	arcsin	arccos	arctan		

Equation Editor Example

A band sells x premium tickets and y regular tickets for a concert.

- · A premium ticket costs \$20.
- · A regular ticket costs \$5 less than a premium ticket.
- · The band raises \$2145 from selling tickets.

Select coefficients to complete the equation representing the relationship between x and y.



Editing Task Example

Angelo transforms rectangle PQRS into rectangle JKLM. The corresponding sides of rectangles PQRS and JKLM are not congruent.



Multi Select Example

Select one angle from each column to show a pair of angles that represents a counterexample.



A table of values for a linear function is shown.

x	f(x)			
-1	-8			
3	0			
6	6			

Match each key feature of the graph to its value.

	-6	1/2	2	3	6
x-intercept					
y-intercept					
rate of change					

Matching Example

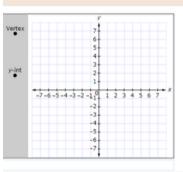
The equation for the function f is shown.

$$f(x) = -\frac{1}{2}x + 3$$

The quadratic function g has the following properties:

- g has a lesser y-intercept than f.
- The maximum value and yintercept of g are not equal.
- First g increases, and then it decreases.

Drag the vertex and *y*-intercept labels to show possible locations for the vertex and *y*-intercept of *g*.



Graphic Response Item Display Example

Which linear equation best models the scatter plot?

(A)
$$y = \frac{2}{3}x + 19$$

(B)
$$y = \frac{6}{8}x + 25$$

©
$$y = \frac{3}{2}x + 19$$

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$$y = \frac{8}{6}x + 25$$

Multiple Choice Example