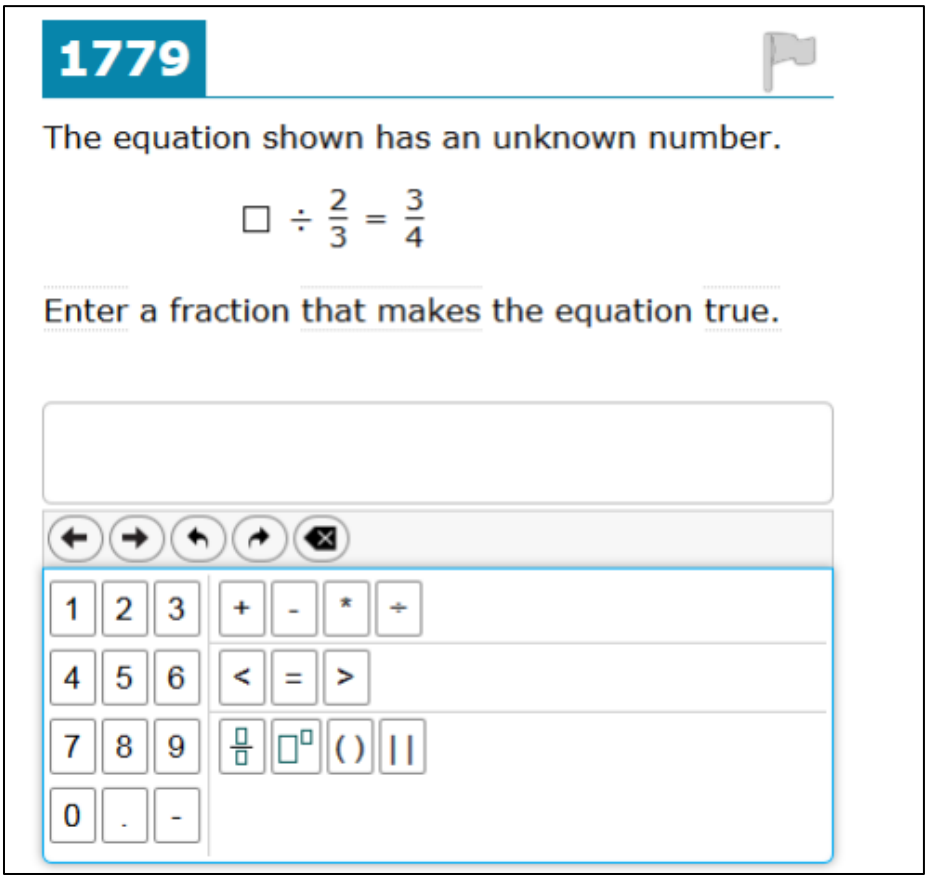
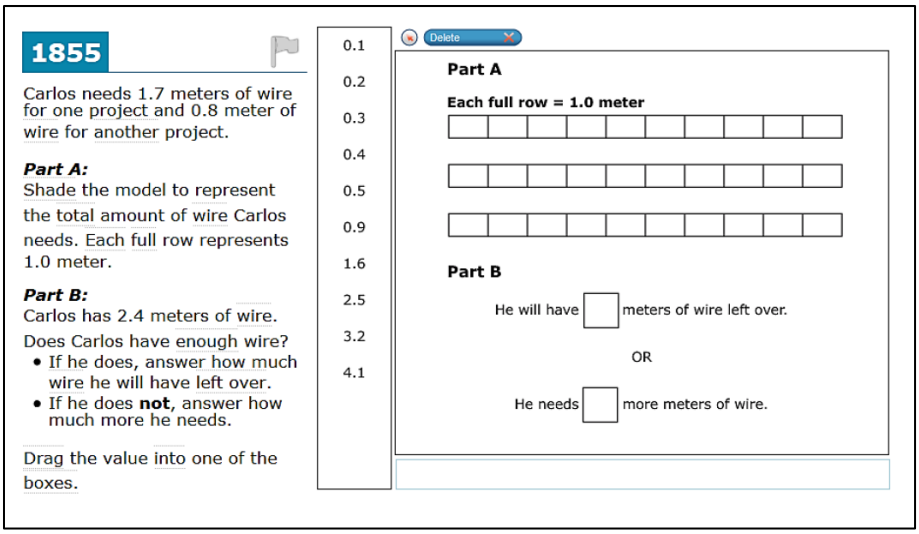
1.



Claim_____

DOK_____

2.



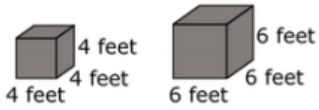
Claim_____

DOK_____

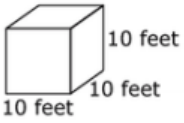
3.

1958

Two shaded cubes are shown.



Ben states that the combined volume of these two shaded cubes is equal to the volume of this cube:



Part A: Select whether Ben's statement is true or false.

Part B: Drag numbers into the box to show the combined volume of the shaded cubes.

0 1 2 3 4 5 6 7 8 9

Delete

A. Ben's statement

True False

B. Combined volume

☐ cubic feet

Claim__ ___

DOK_____

4.

1842

Determine whether each statement is true for all cases, true for some cases, or not true for any case.

	True for all cases	True for some cases	Not true for any cases
Two vertical angles form a linear pair.	☐	☐	☐
If two angles are supplementary and congruent, then they are right angles.	☐	☐	☐
The sum of two adjacent angles is 90°.	☐	☐	☐
The measure of an exterior angle of a triangle is greater than every interior angle of the triangle.	☐	☐	☐

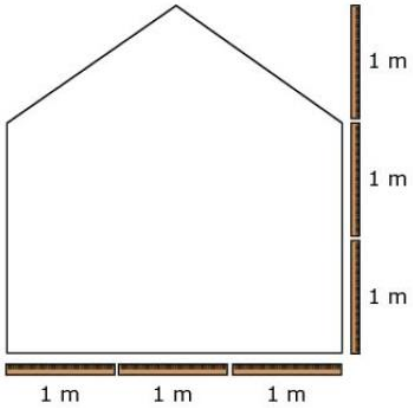
Claim_____

DOK_____

5.

1882

John needs to paint one wall in his school. He knows that 1 can of paint covers an area of 24 square feet. John uses a meter stick to measure the dimensions of the wall as shown.



[1 meter = approximately 39 inches]

What is the **fewest** number of cans of paint John can use to paint the wall?

Claim_____

DOK_____

6.

1864

Joe solved this linear system correctly.

$6x + 3y = 6$

$y = -2x + 2$

These are the last two steps of his work.

$6x - 6x + 6 = 6$

$6 = 6$

Which statement about this linear system must be true?

Ⓐ x must equal 6

Ⓑ y must equal 6

Ⓒ There is no solution to this system.

Ⓓ There are infinitely many solutions to this system.

Claim_____

DOK_____

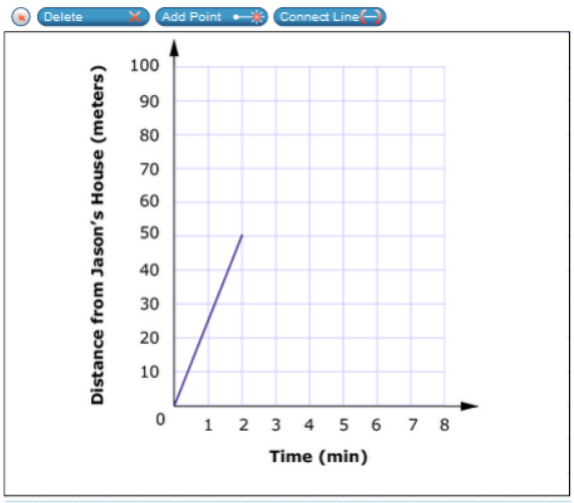
7.

1869

The school is 100 meters from Jason's house. The following describes his most recent trip:

- He walked 50 meters toward school in 2 minutes. He realized that he left a book at home.
- He turned around and walked home at the same speed.
- He spent 1 minute looking for his book.
- He walked all the way to school at twice his original speed.

Use the Connect Line tool to finish a graph that accurately represents Jason's trip.



Claim_____

DOK_____

8.

2042

Consider this equation.

$$c = ax - bx$$

Joseph claims that if a, b, and c are non-negative integers, then the equation has exactly one solution for x.

Select **all** cases that show Joseph's claim is **incorrect**.

- ☐ $a - b = 1, c = 0$
- ☐ $a = b, c \neq 0$
- ☐ $a = b, c = 0$
- ☐ $a - b = 1, c \neq 1$
- ☐ $a \neq b, c = 0$

Claim_____

DOK_____