

Math Grade 7 D

Grade Level Standard(s):

KY.7.G.1

Required Assessment Materials:

- Math 7 D Slide Scale Drawing
- Math 7 D Attainment Task Questions for Student Use

Response Code:

- Indicate the answer provided by the student.

Text Coding:

- “Quotation marks” indicate the script that the teacher should read to the student.
- *Italicized text* provides further direction for the test administrator.
- Words in parenthesis () are optional; they may replace or be read in addition to the word(s) immediately preceding.

a.

It is 4 feet because there are two slides that are 2 inches high.

4

b.

It is 6 feet because the small slide is 2 inches and the large is 4.

6

c.

It is 8 feet because there is a scale factor of 4.

8

Before beginning task administration, please ensure that all conditions specified in the administration protocol (starting on page 9 of the Administration Guide Overview and Attainment Task Administration) have been met. Inform the student that the task is about to start by saying, “We are about to start the task, and I am going to ask you some questions.”

All questions from this task are available for presentation to the student in the material Math 7 D Attainment Task Questions for Student Use.

If needed, remind the student about the task scenario by rereading, “Marvin is turning the pages of a photo album looking at pictures of friends and family.”

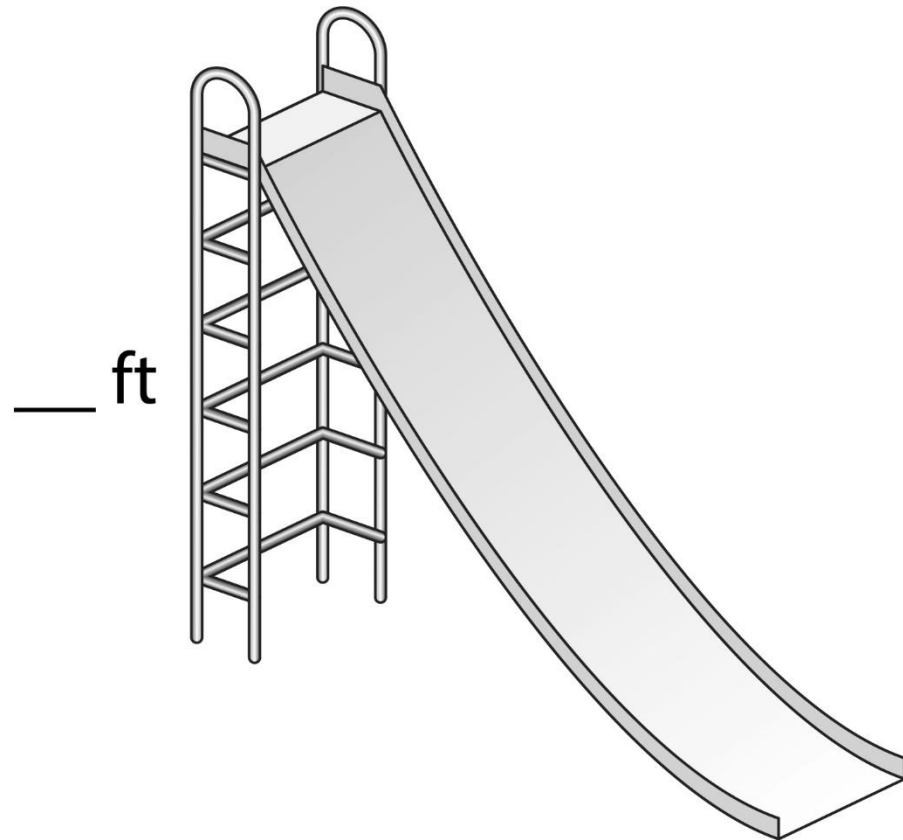
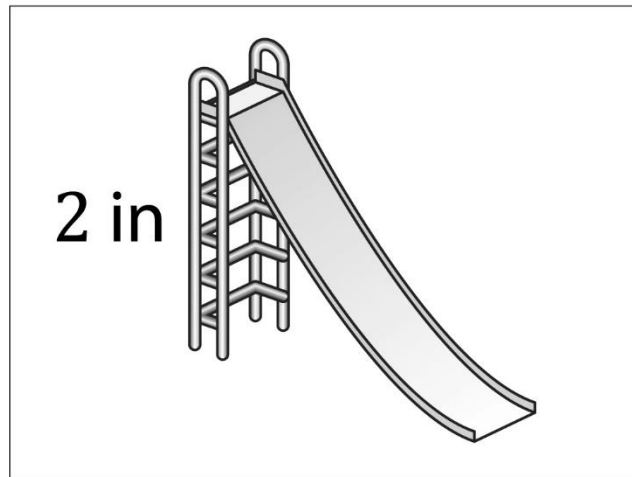
Present the student with Math 7 D Slide Scale Drawing.

“Marvin stops on a photo of him on the slide at the park when he was a baby. The image shows the slide is 2 inches high.”

5.“ Using the *Slide Scale Drawing*, what is the actual height of the slide and why?”

Response Option	Response Rationale
a. It is 4 feet because there are two slides that are 2 inches high.	<i>The student uses the Slide Scale Drawing to convert inches to feet but does not apply the proportional measurement to the second slide.</i>
b. It is 6 feet because the small slide is 2 inches and the large is 4.	<i>The student uses the Slide Scale Drawing but interprets the scale as 4 inches and converts to the unit of feet for both digits, then adds the units .</i>
c. It is 8 feet because there is a scale factor of 4. (Correct)	<i>The student uses the Slide Scale Drawing and applies both the correct unit conversion from inches to feet and the proportional measurement to the second slide.</i>
Depth of Knowledge (DOK) 3	

Math 7 D Slide Scale Drawing



$$1 \text{ inch} = 4 \text{ feet}$$

Math 7 D Attainment Task Questions for Student Use

5. Using the *Slide Scale Drawing*, what is the actual height of the slide and why?

Kentucky Academic Standard: KY.7.G.1 - Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.
MP.1, MP.2, MP.5

Alternate Assessment Target: *Limit to computing actual lengths and areas from scaled drawings.*

Student Group	Number of Students*	Percent Correct #5
All Students	586	43.34%
Gender		
Female	212	46.70%
Male	374	41.44%
Ethnicity		
African American	74	47.30%
American Indian or Alaska Native	<10	Not Reported
Asian	<10	Not Reported
Hispanic of Latino	59	42.37%
Native Hawaiian of Pacific Islander	<10	Not Reported
White (Non-Hispanic)	408	43.38%
Two or More Races	38	39.47%
English Learner	36	44.44%
Economically Disadvantaged	396	41.16%

*Number of students that attempted the item