

Grade 3 Mathematics Sample TE Item C1 T1

MAT.03.TE.1.000MD.H.239 C1 T1

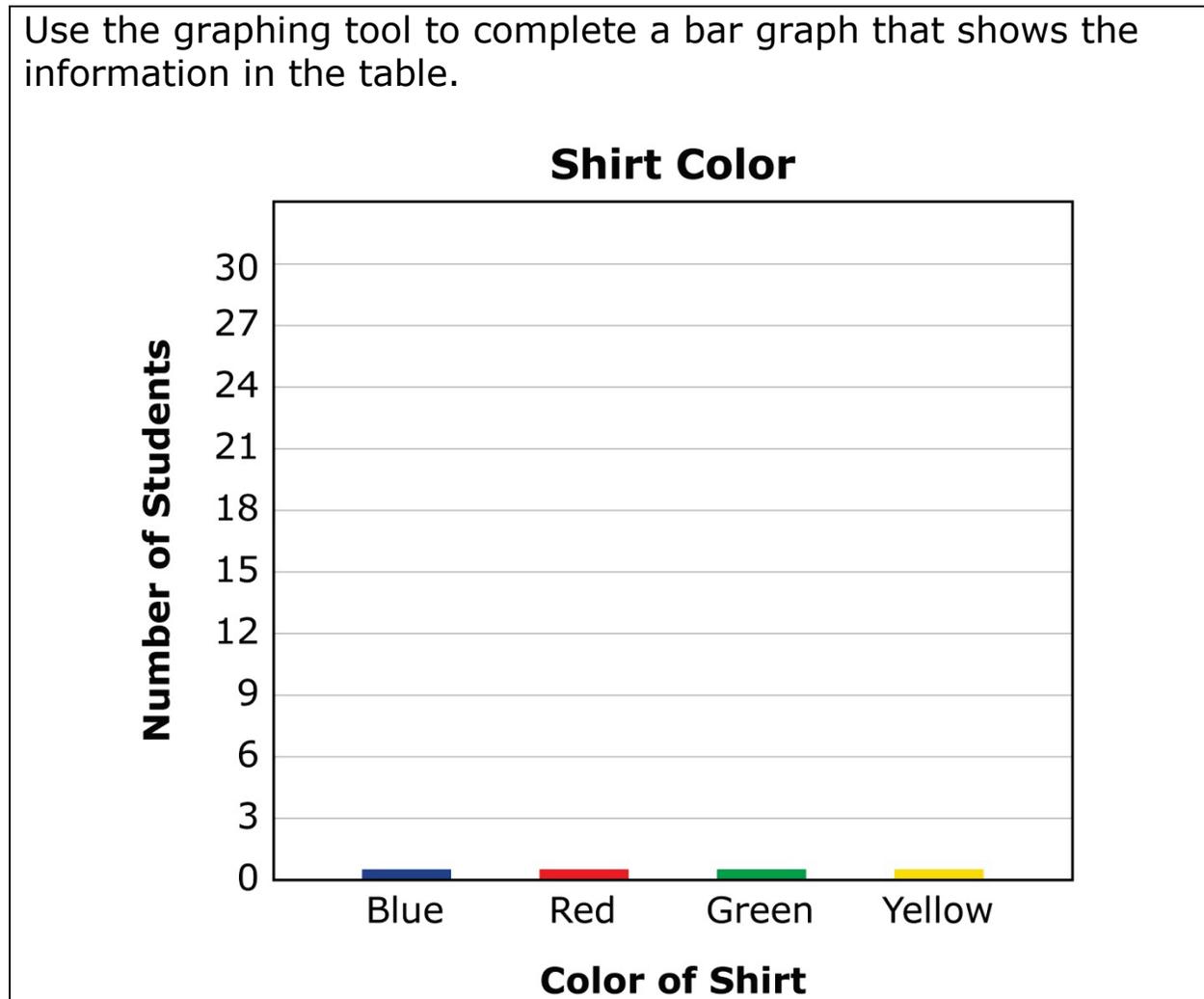
Sample Item ID:	MAT.03.TE.1.000MD.H.239
Grade:	03
Claim(s):	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.
Assessment Target(s):	1 H: Represent and interpret data.
Content Domain:	Measurement and Data
Standard(s):	3.MD.3
Mathematical Practice(s):	1, 2, 4, 5, 6
DOK:	2
Item Type:	TE
Score Points:	2
Difficulty:	M
Key:	See Sample Top-Score Response.
Stimulus/Source:	
Target-Specific Attributes (e.g., accessibility issues):	Students with visual impairments may have accessibility issues.
Notes:	TE Template: Select Defined Partitions

Ms. Hayden made a table to show the number of students in the third grade who were wearing each color of shirt.

Shirt Colors

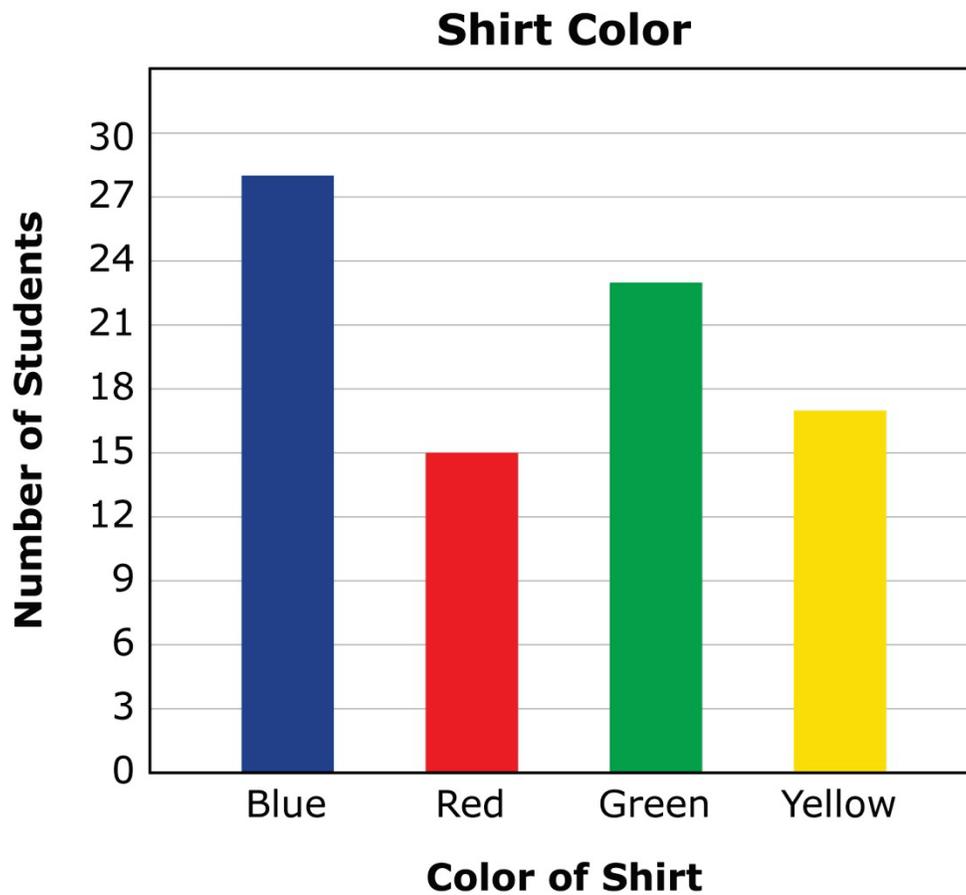
Color of Shirt	Number of Students
Blue	28
Red	15
Green	23
Yellow	17

Use the graphing tool to complete a bar graph that shows the information in the table.



[The graphing tool will allow students to pull up a blue line to create the blue bar. Same for all the colors labeled on the horizontal axis. They will be movable segments.]

Sample Top-Score Response:



Scoring Rubric:

Responses to this item will receive 0-2 points, based on the following:

2 points: The student shows thorough understanding of drawing a scaled bar graph to represent a data set with several categories by selecting the correct sections in the bar graph (28, 15, 23, 17).

1 point: The student shows partial understanding of drawing a scaled bar graph to represent a data set with several categories by selecting three out of four of the correct sections in the bar graph (28, 25, 23, 17).

0 points: The student shows little or inconsistent understanding of drawing a scaled bar graph to represent a data set with several categories.

Item Code: MAT.03.TE.1.000MD.H.239

Template: Select Defined Partitions

Interaction Space Parameters:

A: List of objects:

Bar: 33

Bar: 33

Bar: 33

Bar: 33

B: False (do not limit the number of segments that can be selected)

Scoring Data:

{Bar1: 28; Bar2: 15; Bar3: 23; Bar4: 17} = 2

{Bar1: 28; Bar2: 15; Bar3: 23; Bar4: *} = 1

{Bar1: 28; Bar2: 15; Bar3: *; Bar4: 17} = 1

{Bar1: 28; Bar2: *; Bar3: 23; Bar4: 17} = 1

{Bar1: *; Bar2: 15; Bar3: 23; Bar4: 17} = 1

Scoring Rule Explanation:

Based on the scoring rule (common to all items that implement the template) and the scoring data for this particular item, students that select twenty eight of the segments of the first bar, fifteen of the segments of the second bar, twenty-three of the segments of the third bar, and seventeen of the segments of the fourth bar will receive full credit (2 points). This scoring data allows for partial scoring such that if a student makes one mistake but selects the correct number of segments from the other three bars, the student will receive partial credit (1 point). All other selections will receive a score of 0.