	Kind of Shoes		
	K Kind of Shoe	N Number of Pairs of Shoes	
	Gym Shoes	5	
	Flats	9	
	Lace-up Boots	2	
	Sandals	4	
	Flip-flops	7	
<ol> <li>If you sur Blanca's</li> </ol>	veyed your class, how o	do you think the data would	d compare wit
4. What kin	d of shoes do you think	are most popular in your s	chool?
Variables are the variables in Bla Shoes. The kine	nings that change or var nca and Irma's survey a ds of shoes vary from g	y in an experiment or surve re Kind of Shoe and Numb ym shoes to flip-flops.	ey. The two ma er of Pairs of
The possible ou Boots, and all t	Itcomes for each variab he kinds of shoes listed riable Kind of Shoe. The say that 2, 4, 5, 7, and	le are called <b>values.</b> Gym S in the first column of the d e number of pairs of shoes 9 are values of the variable	Shoes, Lace-U ata table are varied from 2 Number of Pa

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	variables a	ind Possible Values	
	Variables	Values	
	Kind of Shoe	Gym Shoes, Lace-up Boots, Elats, Elip-flops	
	Number of Pairs of Shoes	0, 3, 5	
	Shirt Color	White, Red, Plaid	
	Height	56 in., 58 in.	1
	$\sim$		I
<ol> <li>On the da variables</li> </ol>	ta table you made for and a <i>C</i> beside the ca	r Question 5, write an <i>N</i> beside ategorical variables.	the numerical
Evolete			
cyelets			Copyri
In this lab, you withe students in y Laboratory Mether method scientis	vill answer a certain q /our class dress for so tod. This method is vi ts use in their investig	uestion about how chool using the TIMS ery much like the pations.	Copyright © Kendali Hu
n this lab, you v the students in y Laboratory Meth method scientis Usually, an invest nvestigation, we on students' sho	vill answer a certain q your class dress for so tod. This method is we to use in their investig stigation begins with a e ask the question: Ho bes in your class?	uestion about how chool using the TIMS ary much like the pations. a question. For this ow many eyelets are	Copyright © Kendall Hunt Publishing ©
In this lab, you v the students in y Laboratory Meth method scientis Usually, an invest nvestigation, w on students' sho 7. Look arou answer th your think	vill answer a certain q our class dress for so tool. This method is w ts use in their investig stigation begins with a sak the question: <i>Hu</i> bes in your class? and your classroom. T e questions below. B ing.	uestion about how chool using the TIMS ary much like the lations. a question. For this ow many eyelets are alk with a partner to e ready to explain	Copyright © Kendall Hunt Publishing Company
In this lab, you v he students in y Laboratory Meth method scientis Usually, an inves usually, an inves usually, an inves no students' shc answer th your think <b>A</b> . What of eye	vill answer a certain q opur class dress for so nod. This method is w ts use in their investig stigation begins with a ask the question: <i>Hu</i> <i>es in your class</i> ? Ind your classroom. T e questions below. B ing. do you think is the mo lets?	uestion about how chool using the TIMS ary much like the pations. a question. For this sow many eyelets are alk with a partner to e ready to explain out operation	Copyright © Kendali Hurt Publishing Company
In this lab, you v the students in y Laboratory Mett method scientis Usually, an invee norsetigation, we on students' sho 7. Look arou answer th your think A. What i of eye B. Hown you th	vill answer a certain q our class dress for sr od. This method is w ts use in their investig stigation begins with is a six the question. <i>Hi</i> bes in your class? and your classroom. T e questions below. B ing. do you think is the mo lets?	uestion about how behool using the TIMS ary much like the lations. a question. For this work many eyelets are alk with a partner to e ready to explain ost common number ave 0 eyelets? 5 eyelets? 8 eye	Copyright O Kernal Hunt Publishing Company

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\*Answers and/or discussion are included in the lesson.

# Student Guide

## Eyelets Labs (SG pp. 3–7) Questions 1–19

- **I. A.** Yes. The data show that the most popular type of shoe is flats.
  - **B.** Answers will vary. However, a graph would show that the tallest bar is for flats.
- 2. Flats.
- **3.** Answers will vary.
- **4.** Answers will vary.
- **5.\*** Data tables will vary. Some possible responses include:

Variables	Values
Color of Hair	blond, brown, black, gray, red
Color of Eyes	blue, green, brown
Number of Buttons on Clothes	0, 1, 2, 3
	$\langle \rangle$

**6.\*** Answers will vary. For the possible responses listed above:

Variables	Values
Color of Hair	blond, brown, black, gray, red
Color of Eyes	blue, green, brown
Number of Buttons on Clothes	0, 1, 2, 3
	$\sim$

7.\* A–C. Answers will vary.

## | TG • Grade 5 • Unit 1 • Lesson 1 • Answer Key

- 8.\* A. Students' pictures will vary. See the Student Guide for a sample picture.
  - **B.** See Figure 3 in Lesson 1 for a sample data table.



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\*Answers and/or discussion are included in the lesson.

TG · Grade 5 · Unit 1 · Lesson 1 · Answer Key

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Lesson 1.

**10. A.**\* 3 pairs of shoes

**II. A.**\* 0 eyelets.

four.

**B.**\* 0 pair of shoes. C.\* 6 pair of shoes.

is the mode.

of four.

**12. A.**\* 0, 12, 16, 20, 24, 28, 32, 36.



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- **14. A.**\* 8 bars.
  - **B.**\* some bars are taller than others.
  - **C.\*** The tallest bars are at the left and in the middle on the graph.
  - **D.\*** See discussion in the Lesson.
- 15.\* Answers will vary. Possible responses include: The graph would show more people with a larger number of eyelets. Basketball players are tall and have large feet. Large feet need larger shoes and larger shoes have more eyelets. Most players would have over 28 eyelets. So there wouldn't be any small number of eyelets shown.
- 16. Answers will vary. Possible responses include: The tallest bars would be at the beginning because sandals usually don't have eyelets. There would be a few bars since some people would wear shoes with eyelets.
- **17.**\*412 eyelets.
- 18.\* Answers will vary. One possible response is: If one class has 412 eyelets and there are 4 fifth-grade classrooms in the school, then there are about 1600 eyelets.
- **19.** The shape of the graph would be the same as our graph but all the bars would be taller.

\*Answers and/or discussion are included in the lesson.

#### Answer Key • Lesson 1: Eyelets Lab

#### Homework (SG pp. 8–9) Questions 1–4

- 1. Graph 1 goes with Toussaint School because many of the students wear sandals with no eyelets. The bar for zero is the tallest bar. Graph 2 goes with Augusta Academy because the students wear uniforms and the same shoes. So, there is one bar for boys with 16 eyelets and one for girls with no eyelets. (See the illustration in the *Student Guide*.) Graph 3 goes with G.W. Carver School because students wear a variety of shoes. The bars are all over the graph showing the variety of shoes.
- **2.** Graph 1: The mode is 0 eyelets. Graph 2: The mode is 0 eyelets. Graph 3: The mode is 28 eyelets.
- **3.** Answers will vary. Graph 3 is most like the sample graph in Figure 4 of Lesson 1 because the bars are spread across the graph.
- **4.** Possible response: Adult might have larger shoes and therefore more eyelets. The graph will probably lock like Graph 3 but represent larger numbers like 20–40 eyelets.







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### Teacher Guide

Ι.

Pockets at St. Crispin's (TG pp. 1–2) Questions 1–5



- 2. 23 students. Explanations will vary. Students may use a variety of strategies to add 5 + 6 + 12. One possible mental math strategy is 5 + 6 = 11, 12 + 10 = 22, 22 + 1 = 23.
- **3.** 5 pockets
- 4. Descriptions will vary.
  - **A.** There are 3 bars on the graph.
  - **B.** Each bar is a different height
  - **C.** The tallest bar is for 5 pockets.
  - **D.** Answers will vary. One possible description is: Since students wear uniforms, then the number of pockets depends on the style of uniform each student wears. For example, five pockets may be a boy wearing pants and a dress shirt. The pants could have two side pockets and one rear pocket. The shirt could have two front pockets. A girl could wear a skirt with no pockets and a shirt with one or two pockets.
- **5.** The girls' clothing would have more pockets. The bars representing 1 or 2 pockets would be shorter. More students would have 3, 4, or 5 pockets and so there would be more bars and a higher bar for 5 pockets.