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

Life Spans (SG pp. 380–383) Questions 1–22

- **1.*** Answers will vary. See discussion in the lesson.
- **2.*** Answers will vary. See discussion in the lesson.
- **3.*** Suggested intervals are 0–9 yr, 10–19 yr, 20–29 yr, 30–39 yr, 40–49 yr, 50–59 yr, 60–69 yr, 70–79 yr.
- 4. A.* 25 life spans
 - B.* 50 life spans
 - **C.*** Represent each age as a fraction of deaths and compare the fractions as decimals or fractions.
- **5.*** See the data table in Figure 2 in the lesson.
- **6.*** See the data table in Figures 3 in the lesson.

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Answer Key • Lesson 5: Life Spans

- **7.** In 1858 most of the deaths were in the 0–9 year old age range.
- **8.** In 2014, most of the deaths were in the 80–89 year old age range.
- **9.** More people died in the 50–59 year old age range.
- **10.** More died in their 60s because .14 is greater than .12.
- **11. A.*** The sum of all the common fractions is 1 or $\frac{50}{50}$.
 - **B.*** The one represents the entire data set that was surveyed.
- **12. A.** The sum of all the decimal fractions is 1.

B. The one represents the entire data set.

- **13.*** agree; Possible response: I estimated .28 is about .30 and .30 + .20 = .50 which is also half.
- **14.*** agree; possible response: I know .28 is about .25 and .25 is $\frac{25}{100} = \frac{1}{4}$.
- **15.*** agree; possible response: The sum of .26 and .38 is little more than .50 or I know $\frac{32}{50}$ is little more than half because $\frac{25}{50}$ is half.
- **16.*** See Figure 4 in the Lesson for sample statements.
- **17.*** See the graphs in Figures 5 and 6 in the Lesson.
- 18.* Responses will vary. For the 1858 data: The tallest bar is at the beginning of the graph which tells us that many people in this data set died in childhood. All of the other bars are shorter and there are no bars after 80 years of age indicating that few people lived long lives. For the 2014 data: There isn't a bar in the first interval indicating there weren't any deaths during early childhood in this data set. There are no bars or very short bars between the ages of 10 and 50, so very few people died under the age of 50. The bars between the ages of 50 and 90 get larger as you move to the right on the graph. The tallest bars are between the ages of 70 and 90. These bars tell us that most people in the 2014 data set lived long lives.
- **19. A.*** Answers will vary slightly. About 30 years.**B.*** 27 years old.
- **20. A.*** Answers will vary slightly. About 80 years.**B.*** 79.5 years
- **21.*** Answers will vary. See the discussion in the Lesson.
- **22.*** Answers will vary. See the discussion in the Lesson.







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