

# Answer Key

## Lesson 2.1: Proving Average Rate of Change (F–LE.1a\*)

### Warm-Up 2.1

- Boat A will be worth \$5,145 after 3 years.
- Boat B will be worth \$6,144 after 3 years.
- Boat B will be worth more than Boat A after 3 years.

### Practice 2.1 A: Proving Average Rate of Change

- |             |             |
|-------------|-------------|
| 1. $-0.9$   | 6. $0.08$   |
| 2. $-32$    | 7. $0.08$   |
| 3. $48.74$  | 8. $7.5$    |
| 4. $-15.18$ | 9. $13.65$  |
| 5. $1.8$    | 10. $14.77$ |

### Practice 2.1 B: Proving Average Rate of Change

- |            |             |
|------------|-------------|
| 1. $-0.02$ | 6. $0.13$   |
| 2. $20$    | 7. $0.13$   |
| 3. $30.72$ | 8. $14$     |
| 4. $-5.47$ | 9. $24.40$  |
| 5. $2.54$  | 10. $25.98$ |

## Lesson 2.2: Recognizing Average Rate of Change (F–LE.1b\*, F–LE.1c\*)

### Warm-Up 2.2

- The rate of change from 1900 to 2000 was 2.03 million per year. The rate of change from 2000 to 2010 was 3.5 million per year. The rate of change for 1900 to 2000 was less than the rate of change for 2000 to 2010.
- Highest rate of change: Either 1950 to 1960 or 1990 to 2000 could be described as the 10-year period with the highest rate of change, because they seem to have identical rates. Lowest rate of change: 1930 to 1940. Calculate the rate of change for each 10-year period.
- Answers will vary. Sample answer: The population in 2020 could reach 348,000,000 if the rate of change continues at 3.5 million per year.

### Practice 2.2 A: Recognizing Average Rate of Change

- $\approx 0.001$  gallons per foot
- $\approx 0.001$  gallons per foot
- $\approx 0.8$  Euros per U.S. dollar
- $\approx 0.8$  Euros per U.S. dollar
- Yes, a prediction is possible. Sample prediction: The rate of change would be the same as the rate of change in questions 3 and 4 because the function is linear.
- $\approx 25$  visitors per year
- $\approx 29$  visitors per year
- $\approx -271$  people per year
- $\approx -167$  people per year
- The rate of change for the interval  $[2, 9]$  is steeper than the interval from  $[14, 20]$ . The population is decreasing at a faster rate for the interval  $[2, 9]$  than for  $[14, 20]$ .

### Practice 2.2 B: Recognizing Average Rate of Change

- $\approx 0.06$  gallons per foot
- $\approx 0.06$  gallons per foot
- $\approx 0.97$  Australian dollars per U.S. dollar
- $\approx 0.97$  Australian dollars per U.S. dollar
- Yes, a prediction is possible. Sample prediction: The rate of change would be the same as the rate of change in questions 3 and 4 because the function is linear.
- $\approx 92$  campers per year
- $\approx 150$  campers per year
- $\approx -160$  people per year
- $\approx -65$  people per year
- The rate of change for the interval  $[1, 6]$  is steeper than the interval  $[10, 13]$ . The population is decreasing at a faster rate for the interval  $[1, 6]$  than for  $[10, 13]$ .

## Lesson 2.4: Working with Parallel and Perpendicular Lines (G–GPE.5)

### Warm-Up 2.4

- Answers may vary. Each equation should have a slope of  $-5$ . One possible answer is  $y = -5x + 2$ .  $y$ -intercepts must be different for lines to be parallel and not coinciding.
- Answers may vary. Each equation should have a slope of  $-5$ . One possible answer is  $y = -5x + 7$ .  $y$ -intercepts must be different for lines to be parallel and not coinciding.

### Practice 2.4 A: Working with Parallel and Perpendicular Lines

- $y = -2x + 7$
- $y = \frac{-4}{3}x - \frac{2}{3}$
- $y = \frac{1}{4}x - 2$
- $y = -x - 1$
- $\sqrt{2} \approx 1.4$  units
- $y = \frac{3}{4}x + 7$
- $y = -5x - 34$
- $y = \frac{1}{5}x + 10$
- $y = \frac{4}{3}x - 2$
- The shortest distance is the line that is perpendicular from the train station to Union Street. This distance is approximately 647 yards.

# Answer Key Weston Walch Dbq7

**Brendan G. Carr**



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