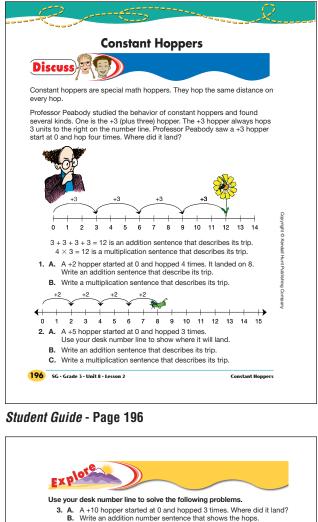
Answer Key • Lesson 2: Constant Hoppers



- C. Write a multiplication number sentence that shows the hops
- 4. A. A +4 hopper started at 0 and hopped 5 times. Where did it land? B. Write an addition number sentence the shows the hops. C. Write a multiplication number sentence that shows the hops.
- 5. A. A +2 hopper starts at 0. How many hops will it take to reach 10? B. A +10 hopper starts at 0. How many hops will it take to reach 60? C. A +6 hopper starts at 0. How many hops will it take to reach 30?
- 6. A. A +4 hopper started at 0. It hopped until it reached 24. How many hops did it make? B. A +2 hopper started at 0. It hopped until it reached 14. How many hops did it make? 22 23 24 C. A +8 hopper started at 0. It hopped until it
 - reached 40. How many hops did it make?
 - D. Write a number sentence to show the hops for 6C.
- 7. A. A constant hopper started at 0 and hopped 4 times. It ended up at 20. How big were its hops? B. A constant hopper started at 0 and hopped 4 times. It landed on 40. How big were its hops? C. Compare the length of the hops in Question 7A with the length of the hops in Question 7B. What do you notice about the length of the hops?
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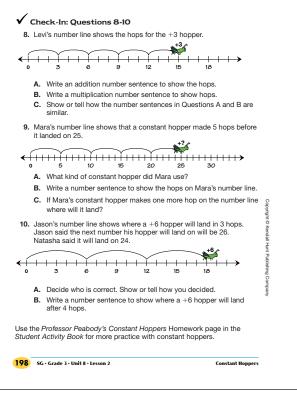
*Answers and/or discussion are included in the lesson.

TG · Grade 3 · Unit 8 · Lesson 2 · Answer Key

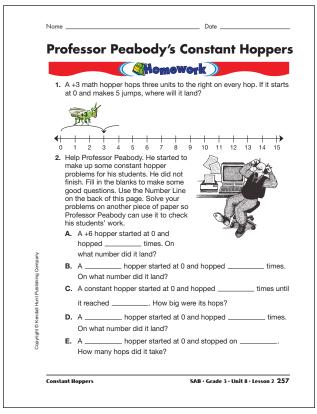
Student Guide Constant Hoppers (SG p. 196–198) **Questions 1–10 I. A.** 2 + 2 + 2 + 2 = 8**B.** $4 \times 2 = 8$ **2. A.** 15: +5 +5 +50 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 **B.** 5 + 5 + 5 = 15**C.** $3 \times 5 = 15$ **3. A.** 30 **B.** 10 + 10 + 10 = 30**C.** $3 \times 10 = 30$ **4. A.** 20 **B.** 4 + 4 + 4 + 4 + 4 = 20**C.** $5 \times 4 = 20$ 5. A. 5 hops **B.** 6 hops **C.** 5 hops **6. A.** 6 hops **B.** 7 hops **C.** 5 hops **D.** $5 \times 8 = 40$ or 8 + 8 + 8 + 8 + 8 = 407. A.* Every hop was 5 units. **B.*** 10 units **C.*** The +10 hopper hops twice as far as the +5 hopper.

Answer Key • Lesson 2: Constant Hoppers

- **8. A.** 3 + 3 + 3 + 3 + 3 = 15
 - **B.** $3 \times 5 = 15$
 - **C.** Possible response: Both number sentences show that the size of each hop is 3 units. Both show that the hopper hopped 5 times. Both also show that the hopper ended on 15.
- 9. A. a +5 hopper
 B. 5 × 5 = 25 or 5 + 5 + 5 + 5 + 5 = 25
 C. 30
- 10. A. Possible response: Natasha is correct. The hopper moves +6 each time. After 3 hops it is on 18, so one more hop will be 18 + 6 = 24.
 - **B.** $4 \times 6 = 24$ or 6 + 6 + 6 + 6 = 24



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Professor Peabody's Constant Hoppers (SG p. 257) Questions 1–2

- I. 15
- 2. A-E. Answers will vary.