Lesson 2.6 Practice: Problem Solving with Linear Equations

School Launch · Algebra I · Unit 2: Solving Linear Equations · Worksheet A

No calculator

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. A music teacher charges a $25 registration fee plus $15 per lesson. Miriam paid $130 in all. How many lessons did Miriam take? EASY

2. A music teacher charges a $49 registration fee plus $9 per lesson. Thomas paid $76 in all. How many lessons did Thomas take? EASY

3. A music teacher charges a $42 registration fee plus $15 per lesson. Josiah paid $192 in all. How many lessons did Josiah take? EASY

4. The length of a garden is 4 feet more than twice its width. The perimeter is 50 feet. Find the width and length. MEDIUM

5. The length of a garden is 8 feet more than twice its width. The perimeter is 82 feet. Find the width and length. MEDIUM

6. The length of a garden is 7 feet more than twice its width. The perimeter is 80 feet. Find the width and length. MEDIUM

7. The length of a garden is 7 feet more than twice its width. The perimeter is 86 feet. Find the width and length. MEDIUM

8. Two trains leave the same station at noon in opposite directions, one at 50 mph and one at 52 mph. After how many hours are they 255 miles apart? HARD

9. Two trains leave the same station at noon in opposite directions, one at 39 mph and one at 67 mph. After how many hours are they 212 miles apart? HARD

10. Two trains leave the same station at noon in opposite directions, one at 50 mph and one at 54 mph. After how many hours are they 312 miles apart? HARD