

Name \_\_\_\_\_ Core \_\_\_\_ Date \_\_\_\_\_

## 7.1–7.4 Quiz



**Write the word sentence as an equation.** (*Section 7.1*)

1. A number  $x$  decreased by 3 is 5.

\_\_\_\_\_

2. A number  $a$  divided by 7 equals 14.

\_\_\_\_\_

**Solve the equation. Check your solution.** (*Section 7.2 and Section 7.3*)

3.  $4 + k = 14$

Solution: \_\_\_\_\_

Check: \_\_\_\_\_

4.  $3.5 = m - 2.2$

Solution: \_\_\_\_\_

Check: \_\_\_\_\_

5.  $8 = \frac{4w}{3}$

Solution: \_\_\_\_\_

Check: \_\_\_\_\_

6.  $31 = 6.2 \cdot y$

Solution: \_\_\_\_\_

Check: \_\_\_\_\_

Tell whether the ordered pair is a solution of the equation. (Section 7.4)

7.  $y = 6x$ ; (3, 24)

\_\_\_\_\_

8.  $y = 3x + 4$ ; (4, 16)

\_\_\_\_\_

Write and graph an equation in two variables that shows the relationship between the time and the distance traveled. (Section 7.4)

9.



Rises 4 feet  
in 9 seconds.

10.

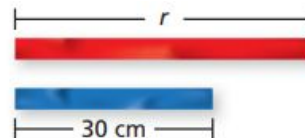


Moves 900 feet  
every 10 seconds.



Graph the equation on your grid. Label them # 9 and # 10.

11. **RIBBON** The length of the blue ribbon is two-thirds the length of the red ribbon. Write an equation you can use to find the length  $r$  of the red ribbon. (Section 7.1)



12. **BRIDGES** The main span of the Sunshine Skyway Bridge is 360 meters long. The Skyway's main span is 30 meters shorter than the main span of the Dames Point Bridge. Write and solve an equation to find the length  $\ell$  of the main span of the Dames Point Bridge. (Section 7.2)

Equation: \_\_\_\_\_

Solution: \_\_\_\_\_

- 13. SHOPPING** At a farmer's market, you buy 4 pounds of tomatoes and 2 pounds of sweet potatoes. You spend 80% of the money in your wallet. Write and solve an equation to find how much money is in your wallet before you pay. (*Section 7.3*)

Equation: \_\_\_\_\_ Solution: \_\_\_\_\_



- 14. SUNDAE** A sundae costs \$2. Additional toppings cost \$0.50 each. Write and graph an equation in two variables that represents the total cost of a sundae. (*Section 7.4*)

Equation: \_\_\_\_\_

**Graph it on your grid. Label it # 14.**



