independent

practice

NAME

Module 3	Solving Linear Equations
	of One Variable
Lesson 3	Solving One-Step Linear Equations

Solve and check.



Journal

- **1.** Explain, in words, how you would solve the equation, 7m = 42. Which property would you use?
- **2.** How many solutions are there for the equation $\frac{r}{4} = 12$? How do you know?
- **3.** How can you show that 3.2 is the solution of y + 1.4 = 4.6?
- 4. Explain how you can show that multiplication undoes division.
- **5.** Explain how you can show that subtraction undoes addition.

Cumulative Review

Solve the following equations.



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List the property of equality needed to find the value of the variable, do not solve.

- **7.** 9W = 54 **Division Property of Equality 8.** u 45 = 9 **Addition Property of Equality**
- 9. $\frac{p}{32} = 5$ Multiplication Property of Equality
- **10.** $\frac{5}{2}Q = 8$ **Multiplication Property of Equality**

Possible Journal Answers

- 1. To solve 7m = 42 you need the Division Property of Equality. Dividing both sides by 7 will give m = 6.
- 2. There is one solution, r = 48. When solving for r you got r = 48, this tells you that the value of r is 48 and no other value.
- 3. The number 3.2 is the solution of y + 1.4 = 4.6 because when you check your answer you have 3.2 + 1.4 = 4.6 which is a true statement. so y = 3.2 is the solution to the equation.
- 4. Multiplication undoes division in the following manner: given $x \div 3$, if you multiply by 3 you get x. Instead of 3, you could use any real number other than zero.
- 5. Subtraction undoes addition in the following manner: given x + 3, if you subtract by 3 you get x. Instead of 3, you could use any real number.

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