

## Lesson 7 Practice Problems

1. A crew has paved  $\frac{3}{4}$  of a mile of road. If they have completed 50% of the work, how long is the road they are paving?
  
2. 40% of  $x$  is 35.
  - a. Write an equation that shows the relationship of 40%,  $x$ , and 35.
  - b. Use your equation to find  $x$ . Show your reasoning.
  
3. Priya has completed 9 exam questions. This is 60% of the questions on the exam.
  - a. Write an equation representing this situation. Explain the meaning of any variables you use.
  - b. How many questions are on the exam? Show your reasoning.
  
4. Answer each question. Show your reasoning.
 

20% of $a$ is 11. What is $a$ ?	75% of $b$ is 12. What is $b$ ?
80% of $c$ is 20. What is $c$ ?	200% of $d$ is 18. What is $d$ ?

5. For the equation  $2n - 3 = 7$

- a. What is the variable?
- b. What is the coefficient of the variable?
- c. Which of these is the solution to the equation? 2, 3, 5, 7,  $n$

(From Unit 4, Lesson 2.)

6. Which of these is a solution to the equation  $\frac{1}{8} = \frac{2}{5} \cdot x$ ?

- A.  $\frac{2}{40}$
- B.  $\frac{5}{16}$
- C.  $\frac{11}{40}$
- D.  $\frac{17}{40}$

(From Unit 4, Lesson 2.)

7. Find the quotients.

- a.  $0.009 \div 0.001$
- b.  $0.009 \div 0.002$
- c.  $0.0045 \div 0.001$
- d.  $0.0045 \div 0.002$

(From Unit 3, Lesson 20.)