

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 6, 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 6, 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 5, Lesson 13.)