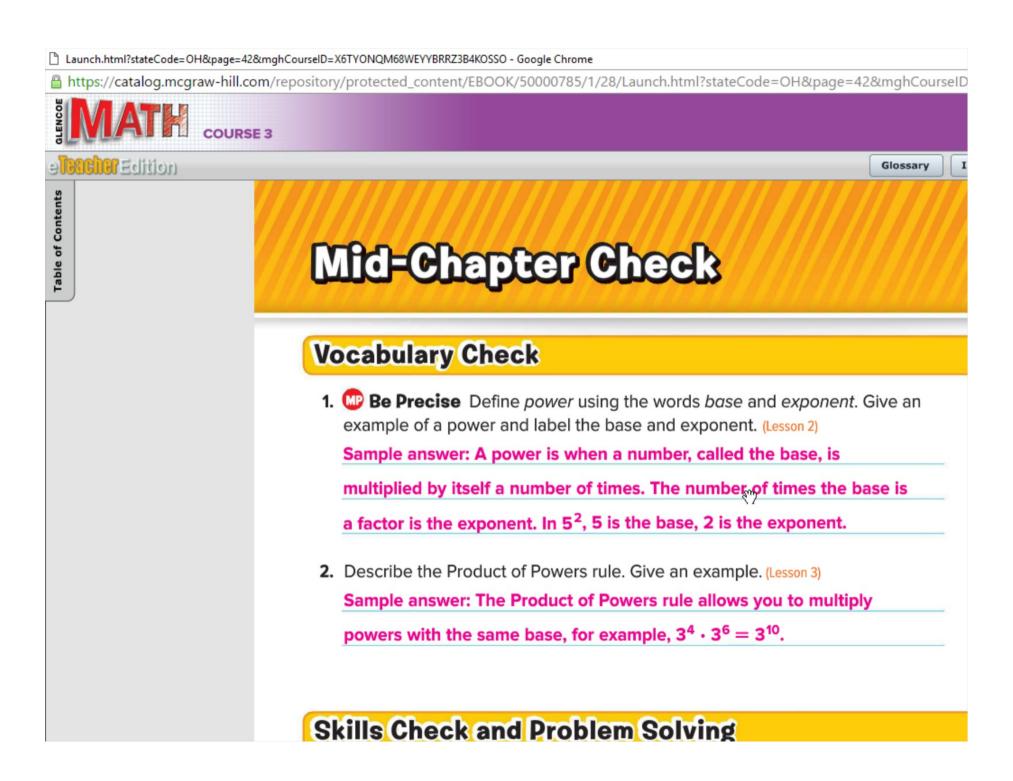
**4.** Write  $0.\overline{15}$  as a fraction in simplest form.

(Lesson 1) 5 33

$$\frac{10000}{9900} = 15$$

$$\frac{15.4545}{9900} = 15$$



## Skills Check and Problem Solving





**4.** Write  $0.\overline{15}$  as a fraction in simplest form.

5. The mass of a baseball glove is  $5 \cdot 5 \cdot 5 \cdot 5$  grams. Write the mass using exponents. Then find the value of the expression. (Lesson 2) 54; 625

Simplify using the Laws of Exponents. (Lessons 3 and 4)

6. 
$$2^3a^7 \cdot 2a^3 = 2^4a^{10} \text{ or } 16a^{10} / 7. \frac{24y^4}{4y^2} = 6y^2$$

7. 
$$\frac{24y^4}{4y^2} = 6y^2$$

8. 
$$(2p^3r^2)^3 = 8p^9r^6$$

9. Persevere with Problems Write two algebraic expressions, one with a quotient of  $x^5$  and one with a product of  $x^5$ . (Lesson 3) Sample answer:  $\frac{x^8}{x^3}$  and  $x^2(x^3)$ 

