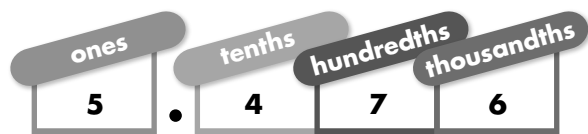


# Additional Practice 1-4

## Understand Decimal Place Value

### Another Look!

One of the largest ostrich eggs laid weighed 5.476 pounds. What is the value of the digit 6 in 5.476?



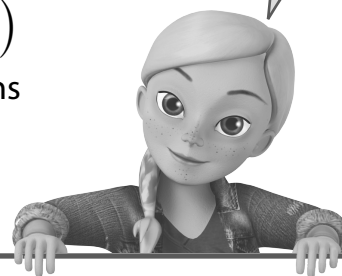
**Standard Form:** 5.476

**Expanded Form:**  $(5 \times 1) + (4 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (6 \times \frac{1}{1,000})$

**Number Name:** Five and four hundred seventy-six thousandths

The digit 6 is in the thousandths place, so the value is 0.006.

A place-value chart can show you the value of each digit in a decimal.



1. Complete the place-value chart for the following number. Write its number name and tell the value of the underlined digit.

6.324

**six and three hundred twenty-four thousandths; 0.02 or 2 hundredths**



2. Write 863.141 in expanded form.  $8 \times 100 + 6 \times 10 + 3 \times 1 + 1 \times (\frac{1}{10}) + 4 \times (\frac{1}{100}) + 1 \times (\frac{1}{1,000})$

In **3–5**, write each number in standard form.

3.  $(8 \times 1) + (5 \times \frac{1}{100}) + (9 \times \frac{1}{1,000})$  **8.059**      4.  $1 + 0.9 + 0.08 + 0.001$  **1.981**

5. Four hundred twenty-five and fifty-two hundredths **425.52**

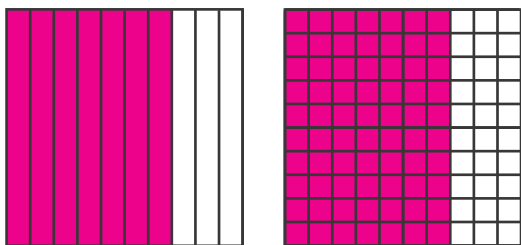
In **6–9**, write two decimals that are equivalent to the given decimal.

**Sample answers are given.**

6. 5.300      7. 3.7      8. 0.9      9. 2.50  
**5.3, 5.30**      **3.70, 3.700**      **0.90, 0.900**      **2.5, 2.500**



10. Shade the models to show that 0.7 and 0.70 are equivalent.

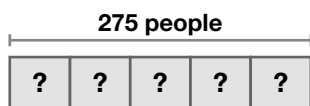


11. Marco has a piece of wood that measures  $9 \times \frac{1}{10} + 6 \times \frac{1}{100} + 4 \times \frac{1}{1,000}$  meter. How can this measurement be written as a decimal?

**0.964**

12. There are 275 people in the movie theater. The same number of people are seated in each of the 5 different sections of the theater. How many people are seated in each section?

**55**



13. **Construct Arguments** Cheryl's softball batting average is 0.340, and Karin's is 0.304. Karin says they have the same average. What error did she make? Explain.

**Sample answer: They have different averages. Cheryl's average is  $0.300 + 0.040$ . Karin's is  $0.300 + 0.004$ .**

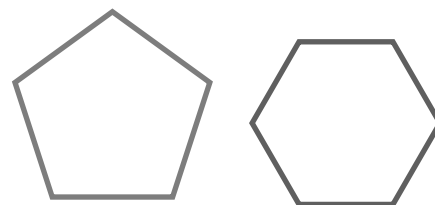
14. **Number Sense** Nico spent eight dollars and seventy-five cents on lunch. Which two items did Nico buy?

**Chef Salad and Pizza;  
 $\$4.50 + \$4.25 = \$8.75$**

DATA	Lunch Menu	
	Item	Price
	Hamburger	\$4.20
	Chef Salad	\$4.50
	Tuna Sandwich	\$4.05
	Pizza	\$4.25

15. **Higher Order Thinking** Anthony drew a pentagon with each side measuring 6 inches. Carol drew a hexagon with each side measuring 5 inches. Which shape has a greater perimeter? Write an equation to help explain your answer.

**Both shapes have a perimeter of 30 inches;  $5 \times 6 = 6 \times 5$**



### Assessment Practice

16. Find two decimals that are equivalent to  $(8 \times 100) + (3 \times \frac{1}{10}) + (6 \times \frac{1}{100})$ . Write the decimals in the box.

**800.36, 800.360**

8.36 800.36 800.036 800.306 8.360 800.360