

## Worksheet 3.7

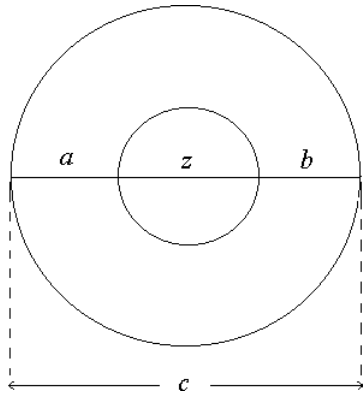
### Applications and Problem Solving.

Solve the problem. See examples on pages 185-188 in text.

1. Vanessa wanted to know the total number of hours she worked this week. Her time card indicated the following hours: Monday, 3.07 hours; Tuesday, 1.42 hours; Thursday, 4.07 hours. How many hours has Vanessa worked this week?

A) 8.46 hours      B) 7.56 hours      C) 8.56 hours      D) 9.56 hours

2. Find the missing measurement in the figure if  $a = 1.08$  inches,  $b = 1.08$  inches, and  $c = 4.77$  inches.



A)  $z = 3.61$  inches      B)  $z = 3.69$  inches      C)  $z = 2.61$  inches      D)  $z = 1.71$  inches

3. Normal body temperature is  $98.6^\circ\text{F}$ . Lupita's temperature is  $102.7^\circ\text{F}$ . How many degrees above normal body temperature is this?

A)  $5.1^\circ\text{F}$       B)  $5.2^\circ\text{F}$       C)  $4.2^\circ\text{F}$       D)  $4.1^\circ\text{F}$

4. A person burns 7.1 calories per minute while walking. How many calories will be burned if the person walks for 3 hours?

A) 1278 calories      B) 213 calories      C) 12,780 calories      D) 21.3 calories

5. John earns  $\$13.16/\text{hr}$ . If he works 17 hours, how much will he earn?

A)  $\$223.73$       B)  $\$223.72$       C)  $\$223.82$       D)  $\$224.82$

6. Mrs. Hernandez prepared her grocery list containing the following items with their sale prices: cheese, \$2.82; crackers, \$5.83; hamburger, \$5.82; and soap, \$0.82. She bought all of the items at the store except the crackers. How much money did she spend?

A) \$14.47      B) \$15.30      C) \$13.47      D) \$9.46

*Solve the problem. See examples on pages 188-192 in text.*

7. Mike filled his car's gas tank and noted that the odometer read 15,442.6. After the next filling, the odometer read 15,986.1. It took 16.1 gal to fill the tank. How many miles per gallon did the car get?

A) 33.1 mpg      B) 34.1 mpg      C) 34.8 mpg      D) 33.8 mpg

8. A house has an assessed value of \$297,500. For each \$1000 of assessed value, the owner must pay \$8.74 in taxes. How much must the owner pay in taxes?

A) \$260.01      B) \$34,038.90      C) \$26,001.50      D) \$2600.15

*Multiply. See examples on pages 156-158 in text.*

9.  $54,915.674 \times 0.001$

A) 54,915.674      B) 54.915 674      C) 549,156.74      D) 5,491,567.4

*Subtract and simplify. See examples on page 105 in text.*

10.  $\frac{3}{4} - \frac{1}{20}$

A)  $\frac{7}{10}$       B)  $\frac{7}{40}$       C)  $\frac{7}{2}$       D)  $\frac{1}{8}$