Worksheet **7.1**

Introduction to Algebra.

Evaluate. See examples on pages 397-398 in text.

1. $6x + 5; x = 11$

    A) 66   B) 71   C) 121   D) 11

2. $\frac{5}{7}x + \frac{3}{7}; x = 4$

    A) 23   B) $\frac{23}{7}$ C) $\frac{4}{7}$ D) $\frac{93}{7}$

3. $\frac{x+2}{2}; x = 4$

    A) 10   B) $\frac{1}{3}$ C) 4   D) 3

Substitute to find the value of the expression. See examples on page 399 in text.

4. A basketball player's free throw percentage is $\frac{m}{a}$ where m is the number of free throws made and a is the number attempted. If a player attempts 152 free throws and makes 126, what is her free throw percentage?

    A) 0.829   B) 1.206   C) 0.870   D) 0.746

State the phrase as a mathematical expression. Use x to represent the variable. See examples on pages 399-400 in text.

5. A number increased by two

    A) $x - 2$ B) $2x$ C) $x + 2$ D) 2

State the phrase as a mathematical expression. Use x to represent the variable. See examples on pages 399-400 in text.

6. A number minus four hundred two

A) $x - 402$ B) $402x$ C) 402 D) $x + 402$

7. 370 divided by a number

A) $\dfrac{370}{x}$ B) $370 - x$ C) $370 + x$ D) $370x$

Translate to an algebraic expression. See examples on page 400 in text.

8. Susan has 12 cats. She gave n cats to her lonely aunt. How many cats does she have left?

A) $n - 12$ cats   B) $12 - n$ cats   C) $n + 12$ cats   D) $12 + n$ cats

Multiply. Write a mixed numeral for the answer. See examples on page 113 in text.

9. $1\dfrac{5}{7} \cdot 4\dfrac{2}{3}$

A) 11 B) $4\dfrac{10}{21}$ C) 8 D) 9

Subtract. Write a mixed numeral for the answer. See examples on page 112 in text.

10. $12\dfrac{2}{7}$
$-\ \dfrac{13}{28}$

A) $12\dfrac{23}{28}$ B) $10\dfrac{23}{28}$ C) 11 D) $11\dfrac{23}{28}$