

Section 2.5: AN INTRODUCTION TO PROBLEM SOLVING

When you are done with your homework you should be able to...

- π Translate English phrases into algebraic expressions
- π Solve algebraic word problems using linear equations

WARM-UP:

Solve:

A fax machine regularly sells for \$380. The sale price is \$266. Find the percent decrease in the machine's price.

ACTIVITY

1. Get three index cards from the front table.
2. Find the people holding the matching cards.
3. Write the missing information on the other side of the card and fill in the table.

ALGEBRAIC TRANSLATIONS OF ENGLISH PHRASES

ENGLISH PHRASE	ALGEBRAIC EXPRESSION
ADDITION	

SUBTRACTION

MULTIPLICATION

DIVISION

MORE THAN ONE OPERATION

6. A basketball court is a rectangle with a perimeter of 86 meters. The length is 13 meters more than the width. Find the width and length of the basketball court.
7. This year's salary, \$42,074, is a 9% increase over last year's salary. What was last year's salary?
8. A repair bill on a sailboat came to \$1603, including \$532 for parts and the remainder for labor. If the cost of labor is \$35 per hour, how many hours of labor did it take to repair the sailboat?