Chapter 11: Homework 32-C
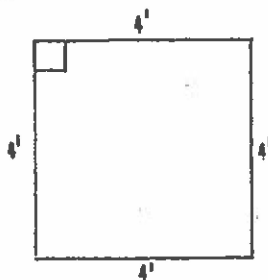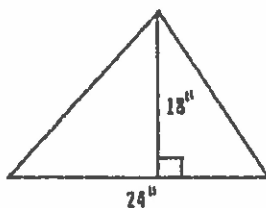
Introduction to Area Problems

I. Find the area of the following figures:
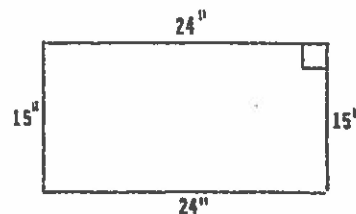
1.

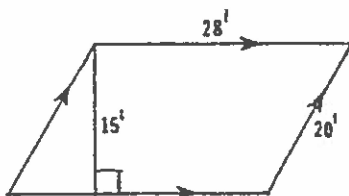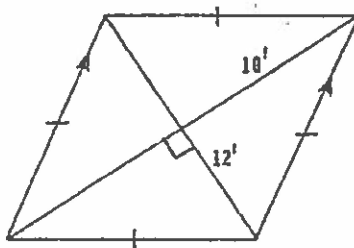

4'
4'   4'
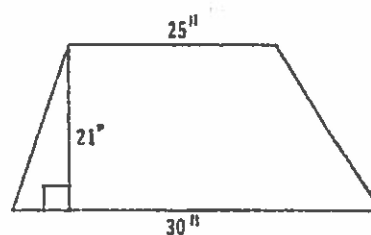4'

2.

18"
24"

3.

24"
15"   15"
24"

_____   _____   _____

4.

28'
15'   20'

5.

10'
12'

6.

25"
21"
30"

_____   _____   _____

II. Solve the following problems: 1) diagram, 2) label diagram, 3) set up problem, 4) solve

1. The sides of a $\overset{right}{\wedge}$ triangle are 6', 8', and 10'. Find the area. _____

2. The area of a trapezoid is 360 sq ". The altitude is 12" and one base is 36". Find the other base. _____

3. Find the area of a parallelogram if a 45° angle is included between sides of 22' and 36'. _____

4. The diagonal of a rectangle is 40 m and the length is 24 m. Find the area.

_____

5. The area of a rhombus is 54 sq ' and one diagonal is 12'. Find the other diagonal.

_____

6. Find the area of a right isosceles triangle whose hypotenuse is 30 cm.

_____

7. Find the area of a 30°- 60° - 90° triangle if its longest leg is 24 m.

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