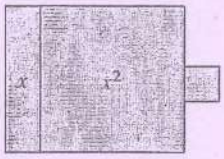
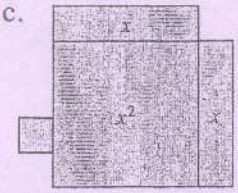
Review & Preview

4-112. Find the perimeter and area of each figure made of algebra tiles below.

a. 

b. 

c. 

4-113. Sketch each collection of tiles below. Name the collection using a simpler algebraic expression, if possible. If it is not possible to simplify the expression, explain why not.

a. $(-2x)+5+3x-4x+(-1)+(-x)$

b. Six plus four times a number, plus four minus four times the number.

c. Three groups of a number plus two.

d. $5+7x^2+4x$

e. $4x^2-2x^2+(-6)+3$

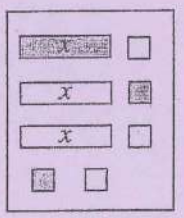
4-115. Copy each expression and simplify it. Be sure to show the steps you use to get the answer.

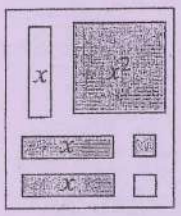
a. $\frac{19}{20}-\frac{1}{4}$ b. $\frac{22}{25}-\frac{7}{10}$ c. $\frac{9}{32}+\frac{7}{8}$

4-116. Rewrite each percent as a fraction and each fraction as a percent.

a. 20% b. $\frac{2}{5}$ c. 75% d. $\frac{2}{3}$

4-117. Write the expression as shown on the Expression Mats, then simplify by making zeros and combining like terms.

a. 

b. 

4-118. Joan's Candy Emporium is having a sale. Three pounds of gummy bunnies are selling for $4.00.

a. How much will two pounds cost?

b. What is the unit rate for gummy bunnies?

4-119. Evaluate each expression below for the given value. That is, find the value of the expression when the variable is equal to the value given.

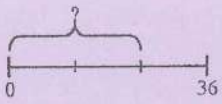
a. $2a-7$ when $a=3$

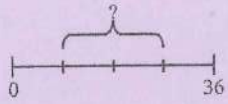
b. $10+4m$ when $m=-2$

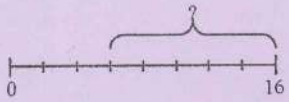
c. $9+(-2n)$ when $n=4$

d. $\frac{x}{2}+5$ when $x=6$

4-120. Identify the length of the missing section of each line. Assume that the lines are divided into equal parts.

a. 

b. 

c. 

4-121. Kris said, *"The Rawlings Rockets basketball team does not have any really tall players."* These are the player's heights in inches: 70, 77, 75, 68, 88, 70, and 72.

a. Which number does not seem to fit this set of data?

b. Do you agree or disagree with Kris? Explain.