## Designing a "Geobread" House

Get set to design a geometric house that would make any gingerbread man proud! For your design to be approved, it must include all of the details below. As you complete each step, check ( $V^{\prime}$ ) it off the list. 1. Graph sheet 1: Use colored pencils to draw two pentagons side by
side, each having the dimensions shown. Label one pentagon "Front
and the other "Back." Find the perimeter and the area of each penta-
gon. Record the measurements on the graph paper. Hint: To find the
area, think of the pentagon as two shapes: a square and a triangle. Graph sheet 1: Use colored pencils to draw two pentagons side by
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area, think of the pentagon as two shapes: a square and a triangle. Then use the formulas $A=S^{2}$ and $A=1 / 2 \mathrm{bh}$.

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2. Graph sheet 2: Draw two 12 cm squares side by side. Label one square "Left Side" and the other "Right Side." Find and label the perimeter and area of each square.

3. Graph sheet 3: Draw two $12 \mathrm{~cm} \times 15 \mathrm{~cm}$ rectangles side by side. Label one "Left Roof" and the other "Right Roof." Find and label the perimeter and area of each rectangle.

$\qquad$ 4. Classify each item below as a different space figure.
caramel: $\qquad$ Bugles* corn snack: $\qquad$ a piece of Toblerone chocolate:
peppermint stick: $\qquad$
gumball: $\qquad$
Jolly Ranchers:
5. Add drawings to your graph-paper designs that show how you'll use the candies and snacks as decorations. Make sure your design has a labeled example of each geometric part listed below.

6. Show your design to your teacher for approval. Once it's approved, you're ready to construct your "geobread" house!

