Grade 3 •
Design a Little House (Area & Perimeter)

Objective: Students draw a simple Little House on grid paper and compute area and perimeter.

Materials: Grid paper, pencils, crayons, rulers.

Instructions:
1. Read the story and discuss why small spaces matter.
2. Students draw their own narrow Little House (no wider than 6 squares).
3. Shade the house and count the total squares for area.
4. Count or measure each side to find perimeter.

Worksheet (included)

Extension: Students redesign the house while keeping the same perimeter.

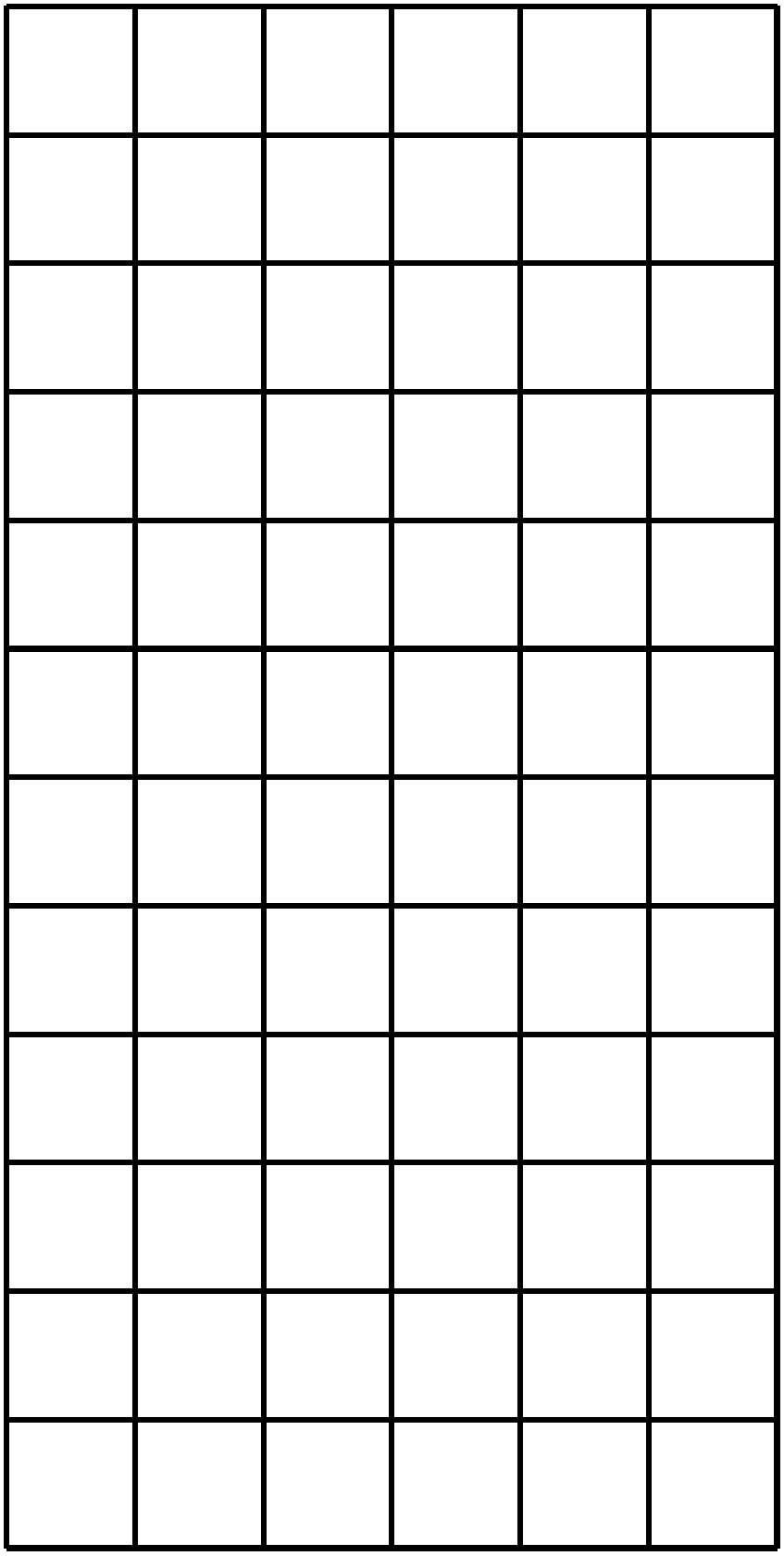
_____’s Little House

Area of house:

_____ square units

Perimeter:

_____ units



Grade 4
Architects in Action (Area & Perimeter)

Objective: Students design a house with at least two rectangles and calculate total area and perimeter.

Materials: Grid paper, rulers, colored pencils.

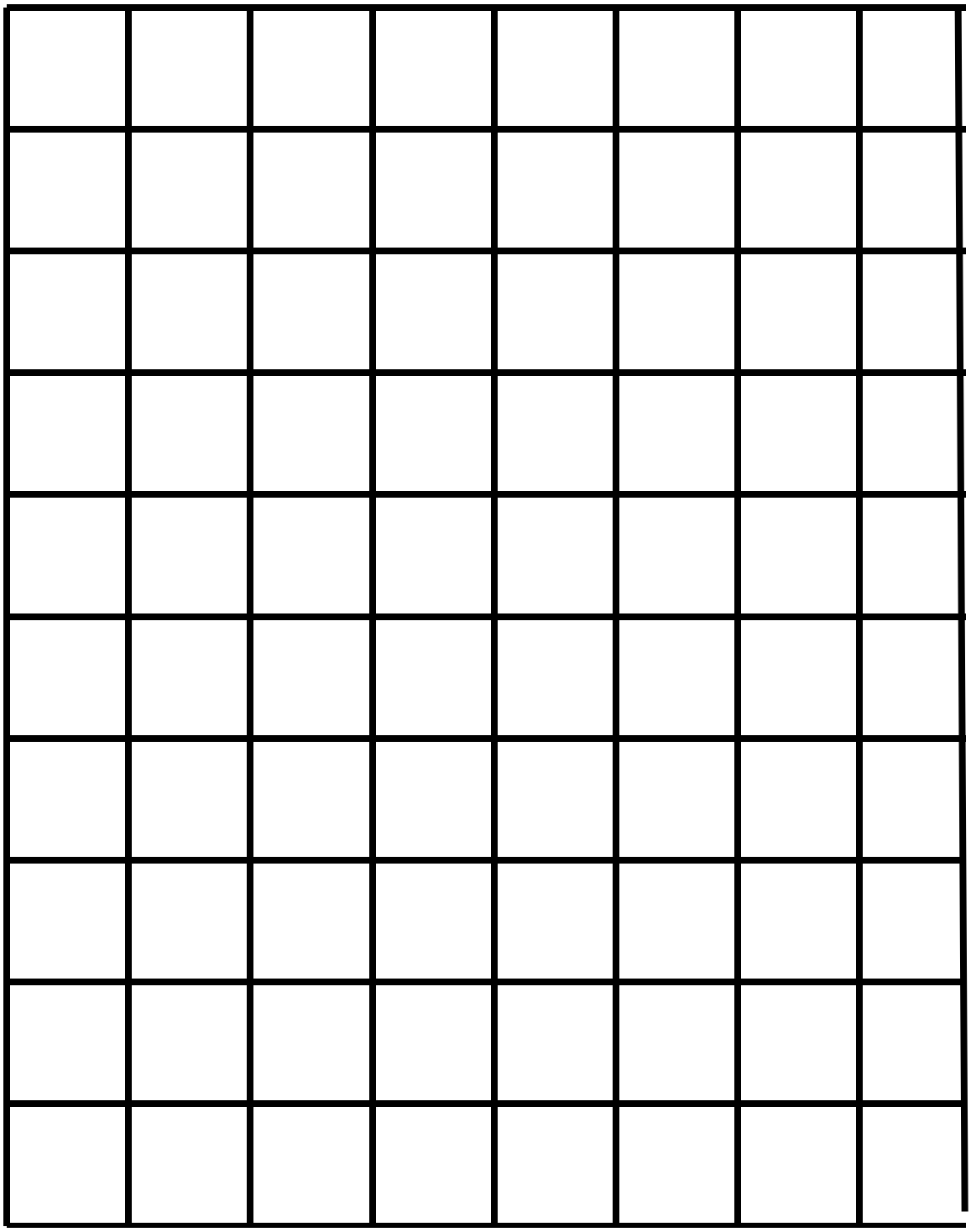
Instructions:
1. Review formulas for area and perimeter.
2. Students draw a Little House using at least two connected rectangles (no wider than 8 squares) using the grid paper (included).
3. Label lengths and widths.
4. Compute area of each room and total area.

Worksheet (included)

Extension: Add a second floor or rooftop and compare area differences.

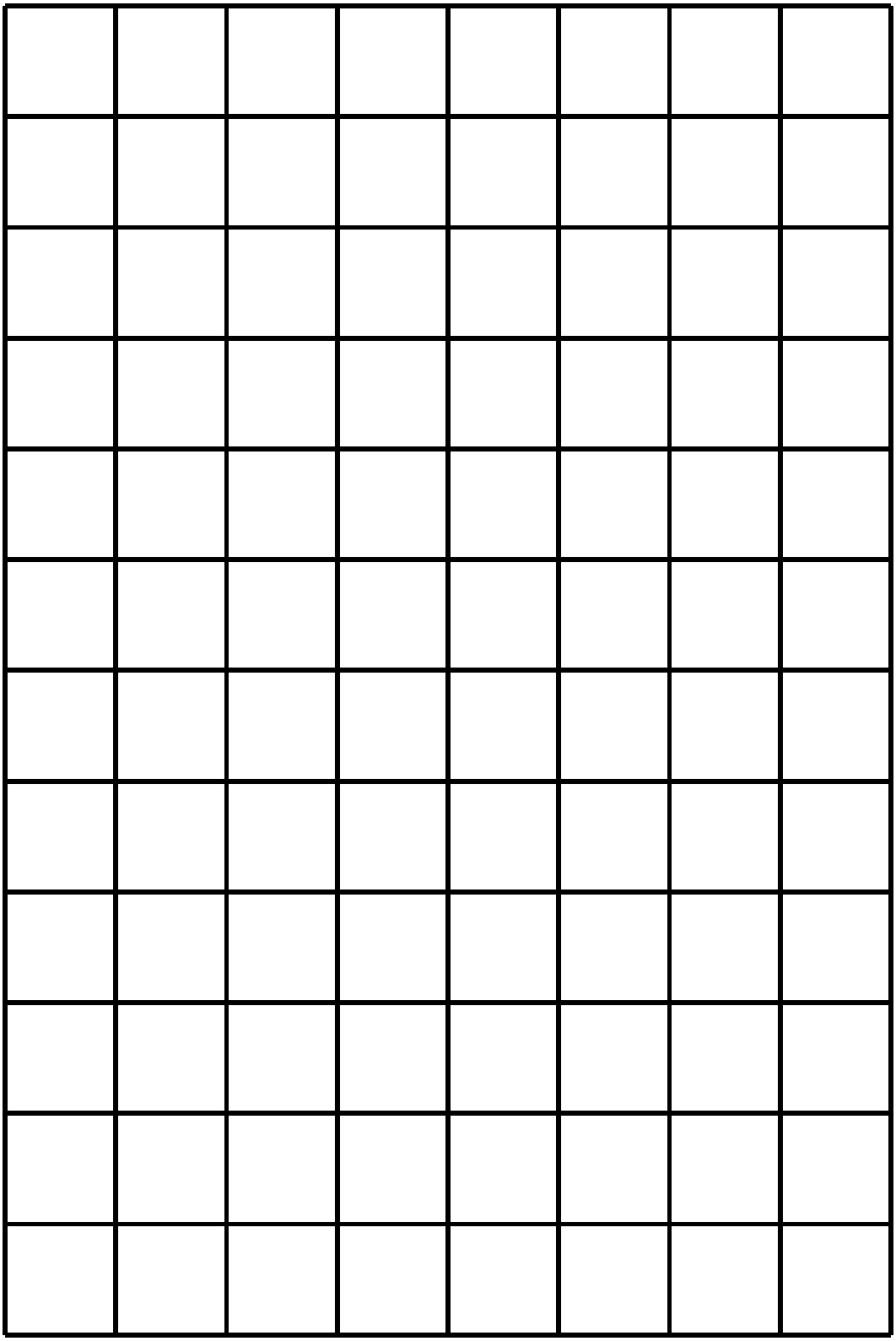
_____’s Little House

Area of Room A: ___ • Area of Room B: ___ • Total Area: ___ • Perimeter: ___



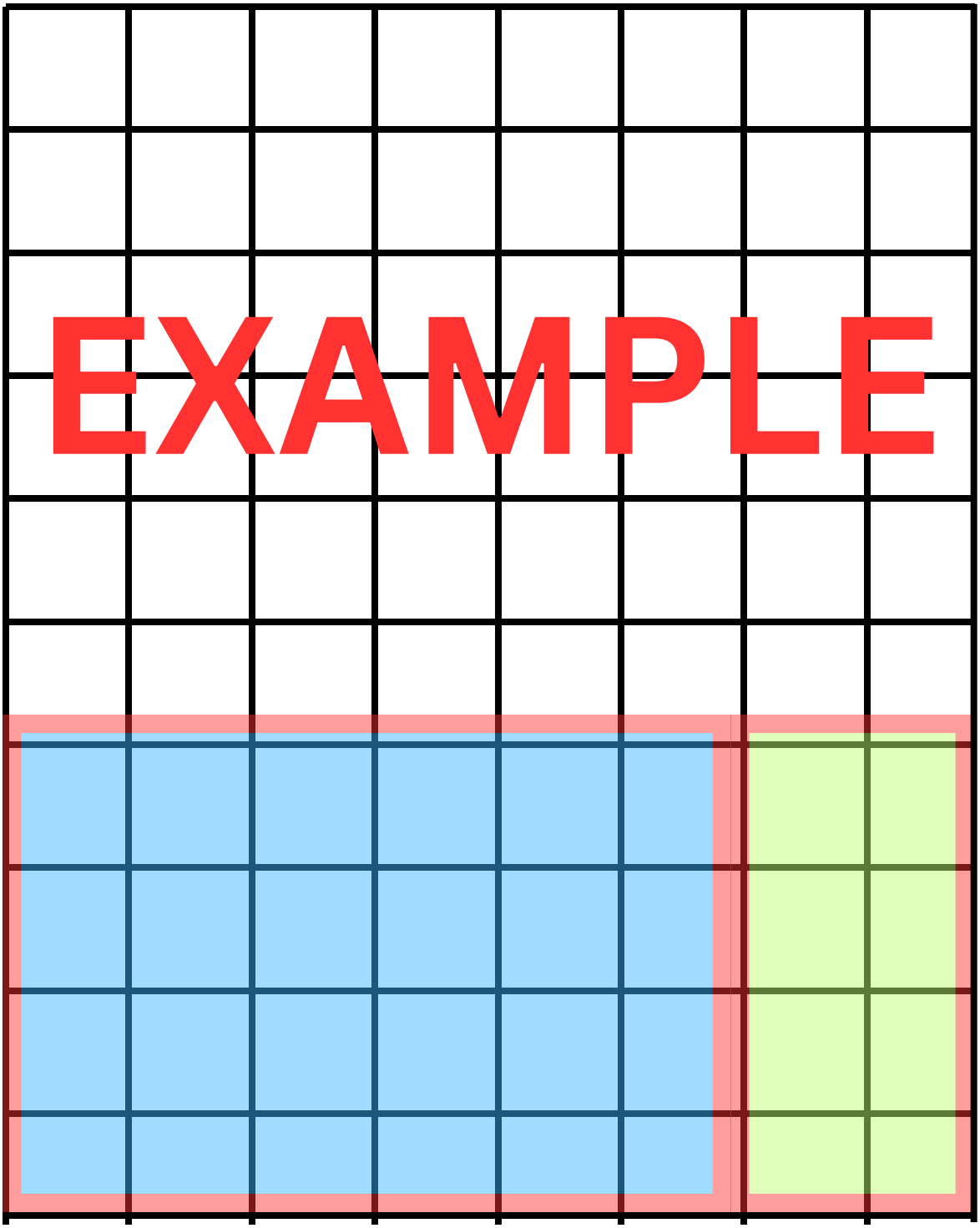
_____’s Little House

Area of Room A: ___ • Area of Room B: ___ • Total Area: ___ • Perimeter: ___



• Area of Room A: 24 square units • Area of Room B: 8 square units

• Total Area: 32 square units • Perimeter: 24 units



Grade 5
Big Ideas in Small Spaces (Area, Perimeter & Volume)

Objective: Students design a multi-room Little House and compute area, perimeter, and volume.

Materials: Grid paper, isometric paper (optional), rulers.

Instructions:
1. Review area, perimeter, and volume.
2. Students build a floor plan with at least two rooms and assign height.
3. Convert rooms to rectangular prisms.
4. Compute area, perimeter, and volume.

Worksheet (**Included**)

Extension: Add a loft and calculate additional volume.

ROOM A

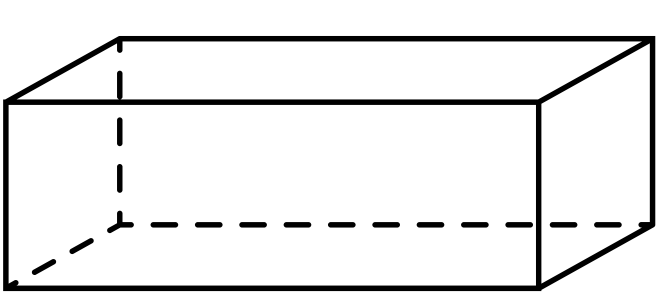
Name: _____

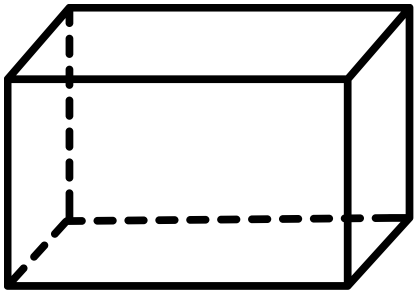
ROOM B

Name: _____

Name: _____

- **Room A: Area _____, Volume _____**
- **Room B: Area _____, Volume _____**
- **Total Perimeter: _____**
- **Total Volume: _____**





Name: _____

- **Room A: Area _____, Volume _____**
- **Room B: Area _____, Volume _____**
- **Total Perimeter: _____**
- **Total Volume: _____**