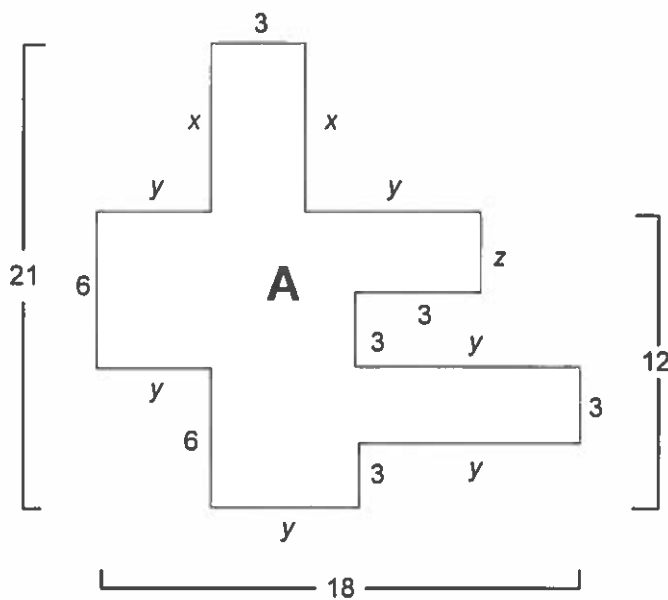


Student Resource 2.2

Worksheet: Rough Sketch–Net A

Directions

The following is a rough sketch of a net that will fold into a 3-D object. Write an expression for the perimeter of the net and simplify that expression. Then use the given information to write an equation for each variable. Solve the equations. Finally, calculate the exact perimeter of the net. Some of the work is already done for you.



All measurements are in centimeters (cm).
 Assume that all lines are straight and that all corners are 90 degrees.
 Not drawn to scale.

Equation for Net A:

x) $x + 6 + 6 = 21$
 $x + 12 = 21$
 $x + 12 - 12 = 21 - 12$
 $x = 9$

y) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____

z) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____

Expression for Perimeter: 3 + x + y + z + 3 + 3 + y + 3 + y + 3 + y + 6 + y + 6 + y + x

Simplified Expression for Perimeter: _____

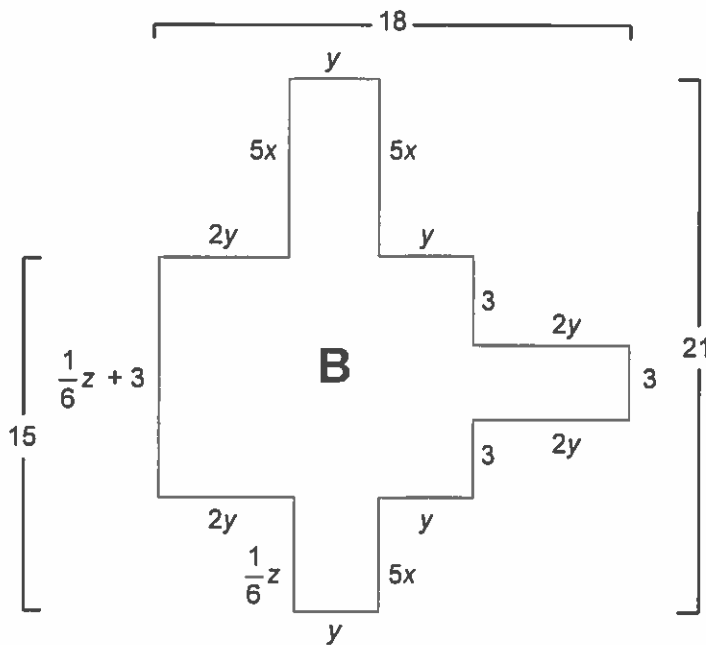
Perimeter: _____

Student Resource 3.1

Worksheet: Rough Sketch–Nets B and C

Directions

The following are rough sketches of nets that will fold into 3-D objects. Write an expression for the perimeter of the net and simplify that expression. Then use the given information to write an equation for each variable. Solve the equations. Finally, calculate the exact perimeter of the net.



All measurements are in centimeters (cm).
 Assume that all lines are straight and that all corners are 90 degrees.
 Not drawn to scale.

Equation for Net B:

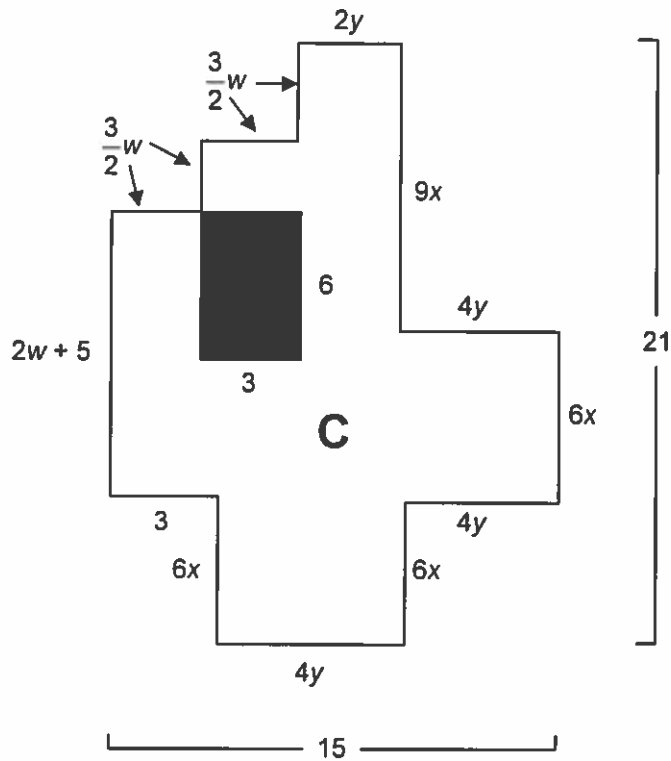
- x) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____
- y) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____
- z) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____

Expression for Perimeter: _____

Simplified Expression for Perimeter: _____

Perimeter: _____

Unit 1 The Puzzle Cube
 Lesson 3 Solving 2-Step Equations



All measurements are in centimeters (cm).
 Assume that all lines are straight and that all corners are 90 degrees.
 Darkened rectangle indicates hole in template.
 Not drawn to scale.

Equation for Net C:

w) _____ = _____

_____ = _____

_____ = _____

_____ = _____

x) _____ = _____

_____ = _____

_____ = _____

_____ = _____

y) _____ = _____

_____ = _____

_____ = _____

_____ = _____

Expression for Perimeter: _____

Simplified Expression for Perimeter: _____

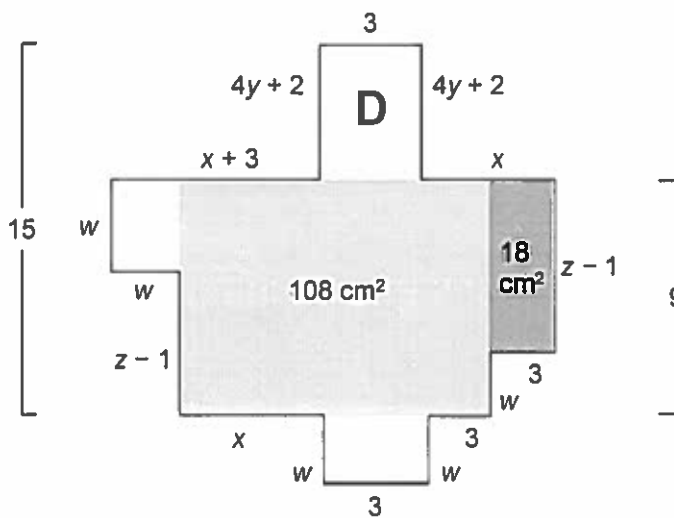
Perimeter: _____

Student Resource 4.1

Worksheet: Rough Sketch–Nets D and E

Directions

The following are rough sketches of nets that will fold into 3-D objects. Write an expression for the perimeter of each net and simplify that expression. Then use the given information to write an equation for each variable. Solve the equations. Finally, calculate the exact perimeter of the net.



Equation for Net D:

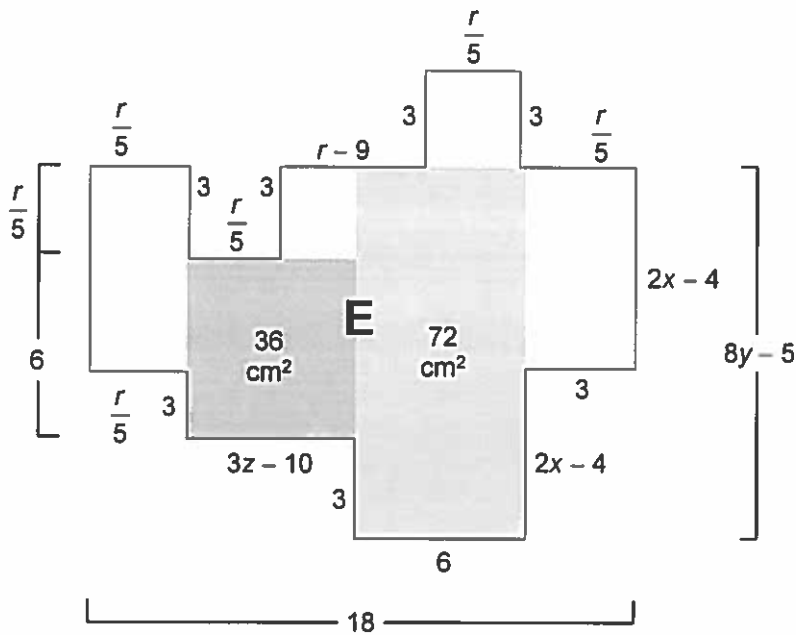
w) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____
 x) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____
 y) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____
 z) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____

All measurements are in centimeters (cm).
 Assume that all lines are straight and that all corners are 90 degrees.
 Not drawn to scale.

Expression for Perimeter: _____

Simplified Expression for Perimeter: _____

Perimeter: _____



Equation for Net E:

- r) _____ = _____
- _____ = _____
- _____ = _____
- _____ = _____
- x) _____ = _____
- _____ = _____
- _____ = _____
- _____ = _____
- y) _____ = _____
- _____ = _____
- _____ = _____
- _____ = _____
- z) _____ = _____
- _____ = _____
- _____ = _____
- _____ = _____

All measurements are in centimeters (cm).
 Assume that all lines are straight and that all corners are 90 degrees.
 Not drawn to scale.

Expression for Perimeter: _____

Simplified Expression for Perimeter: _____

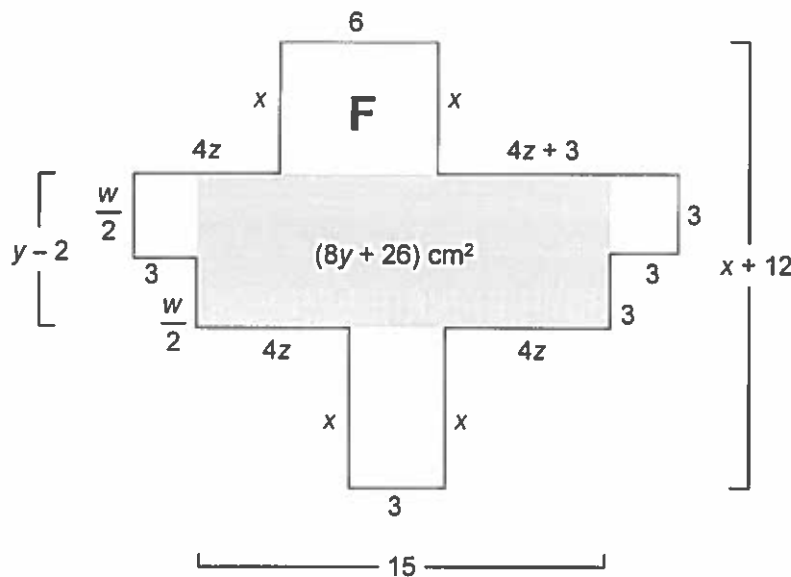
Perimeter: _____

Student Resource 5.1

Worksheet: Rough Sketch–Nets F and G

Directions

The following are rough sketches of nets that will fold into 3-D objects. Write an expression for the perimeter of each net and simplify that expression. Then use the given information to write an equation for each variable. Solve the equations. Finally, calculate the exact perimeter of the net.



Equation for Net F:

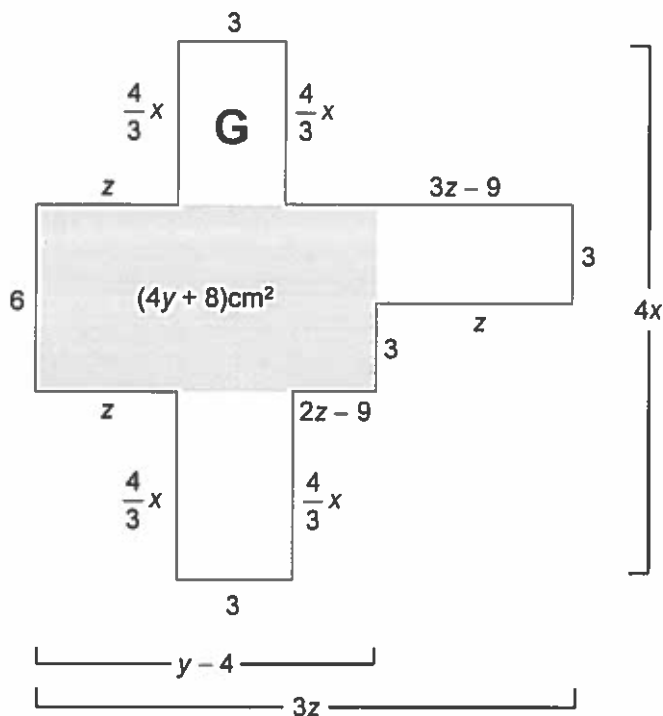
- w) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____
- x) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____
- y) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____
- z) _____ = _____
 _____ = _____
 _____ = _____
 _____ = _____

All measurements are in centimeters (cm).
 Assume that all lines are straight and that all corners are 90 degrees.
 Not drawn to scale.

Expression for Perimeter: _____

Simplified Expression for Perimeter: _____

Perimeter: _____



Equation for Net G:

x) _____ = _____

_____ = _____

_____ = _____

_____ = _____

y) _____ = _____

_____ = _____

_____ = _____

_____ = _____

z) _____ = _____

_____ = _____

_____ = _____

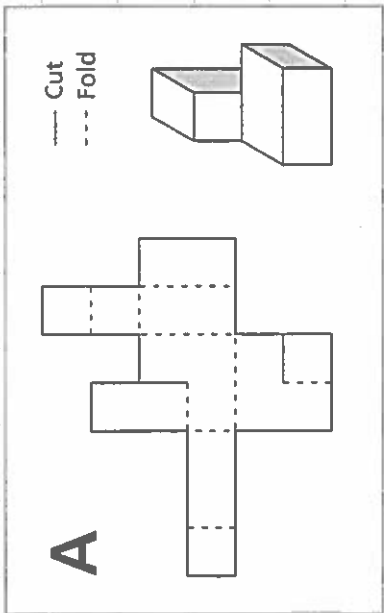
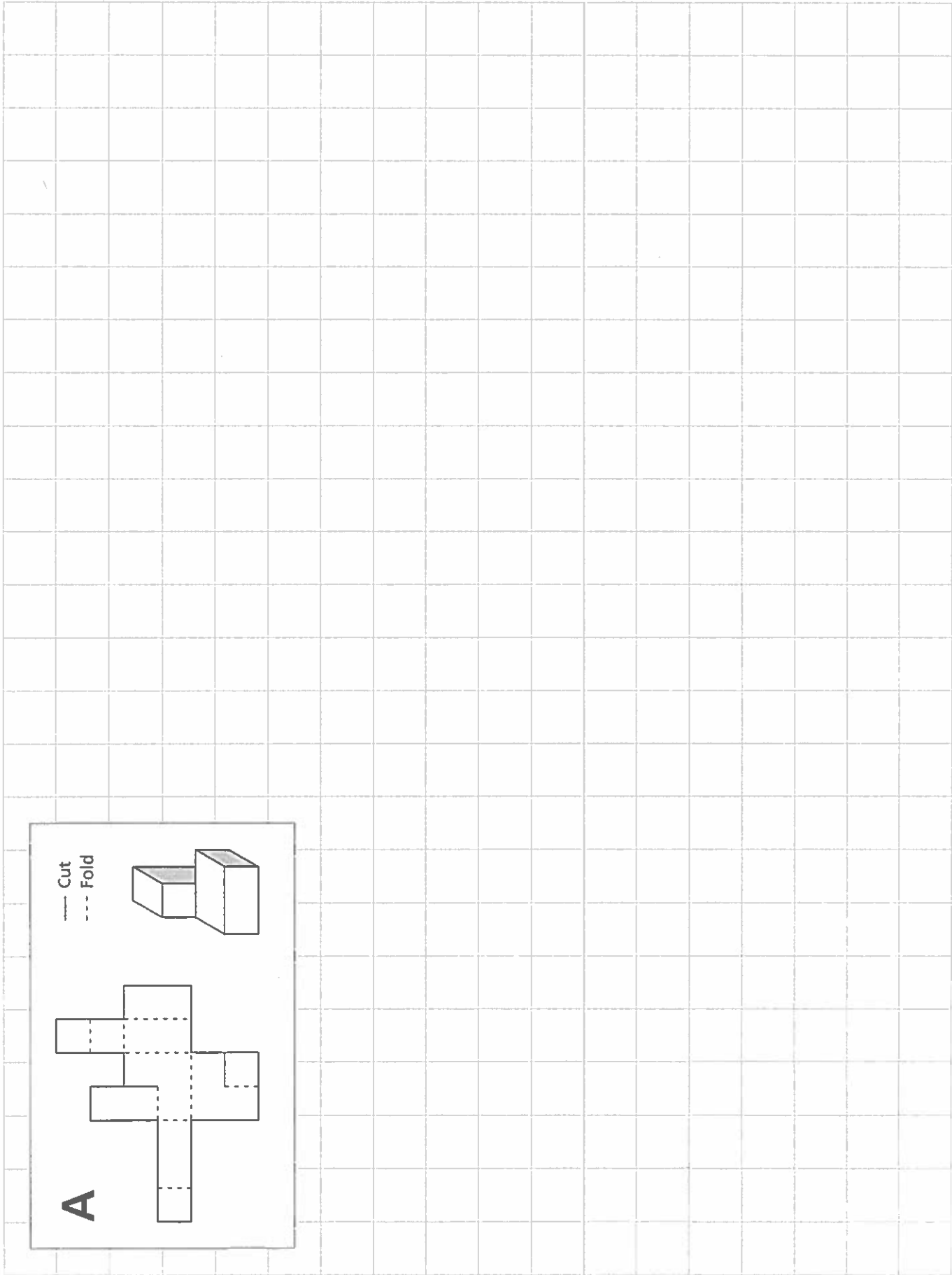
_____ = _____

All measurements are in centimeters (cm).
 Assume that all lines are straight and that all corners are 90 degrees.
 Not drawn to scale.

Expression for Perimeter: _____

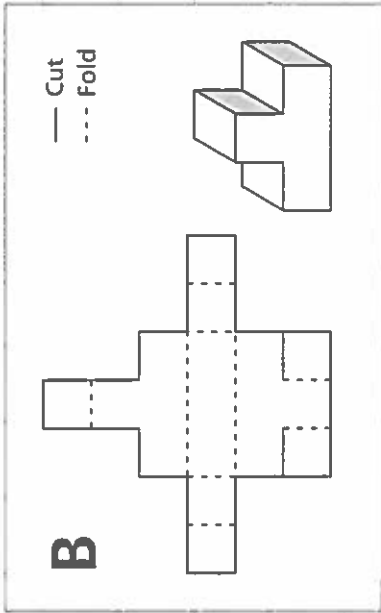
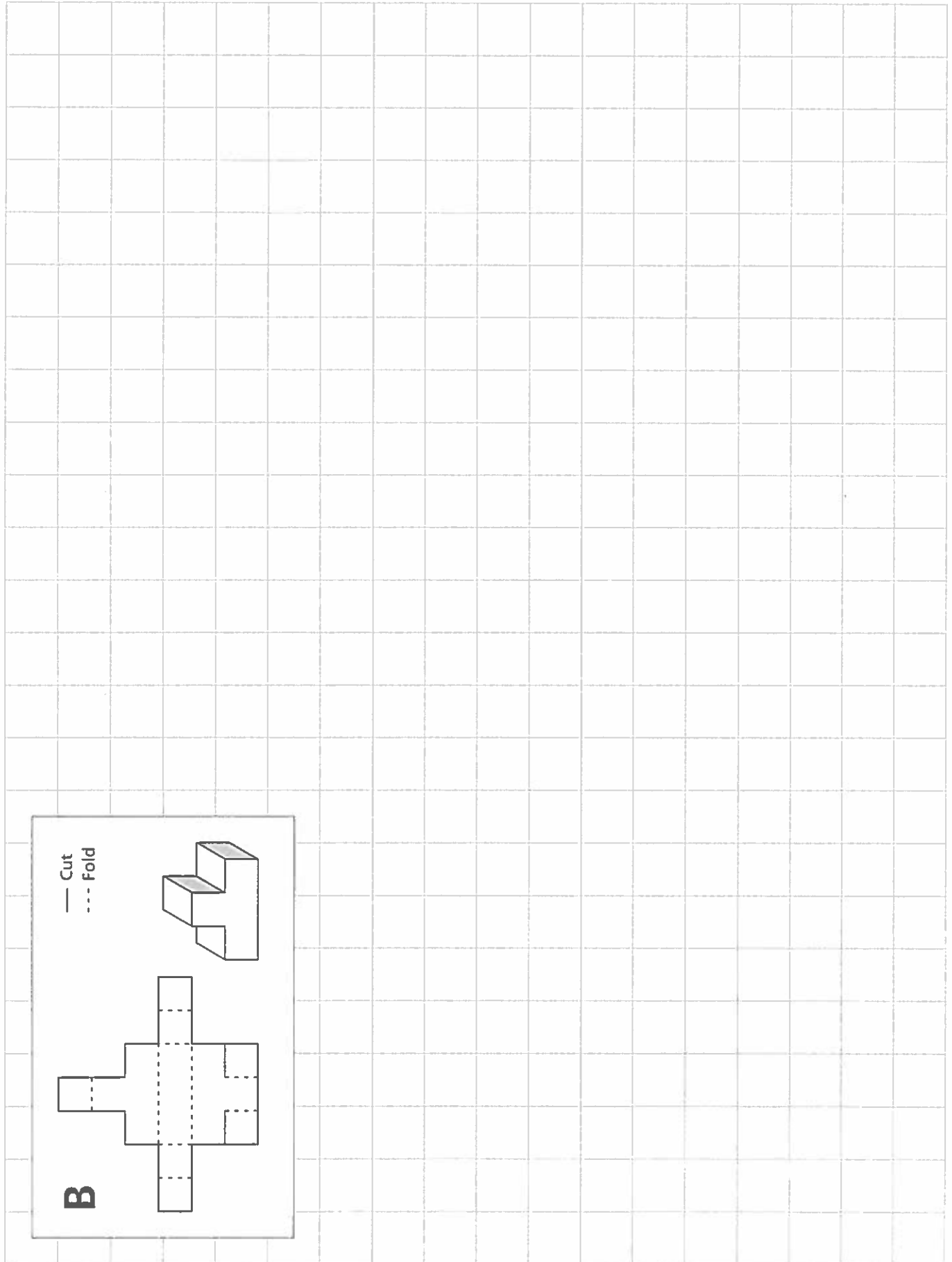
Simplified Expression for Perimeter: _____

Perimeter: _____



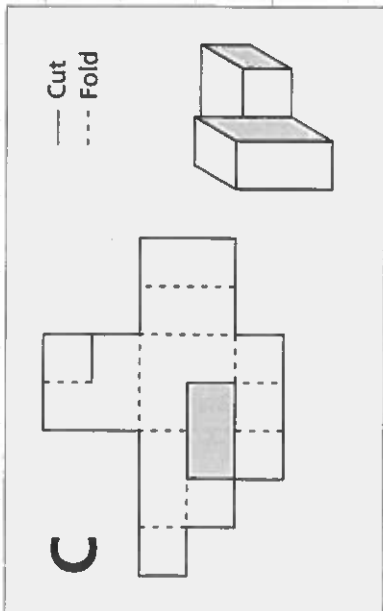
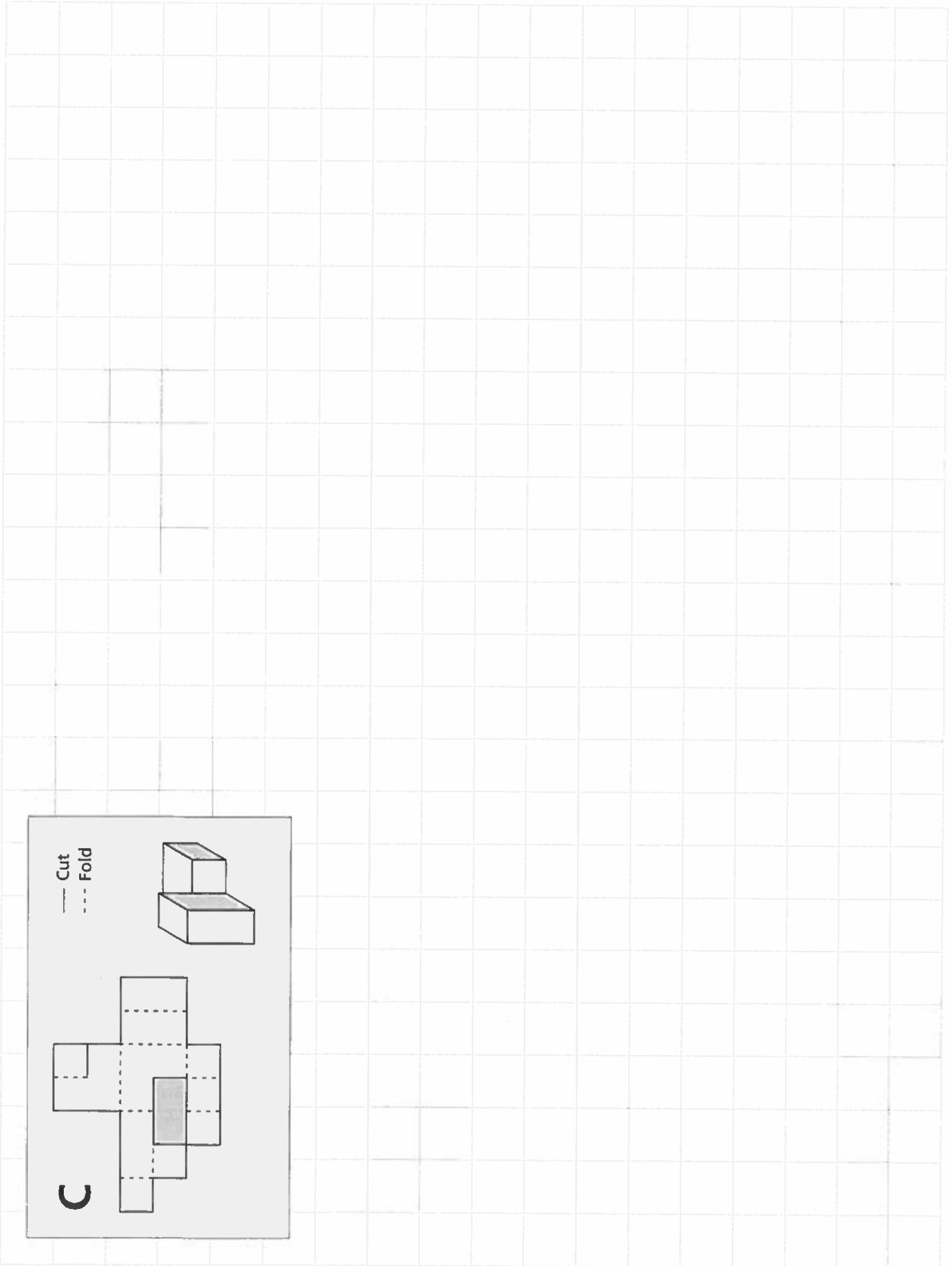
Unit 1 The Puzzle Cube

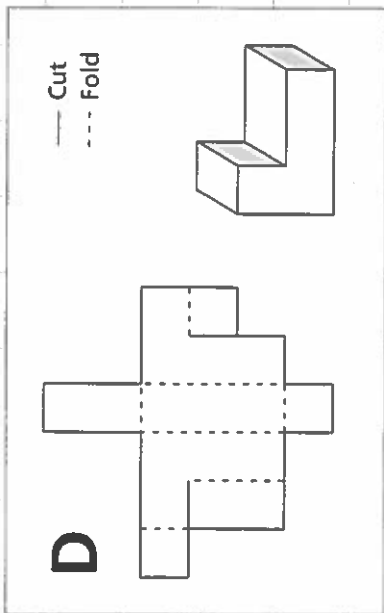
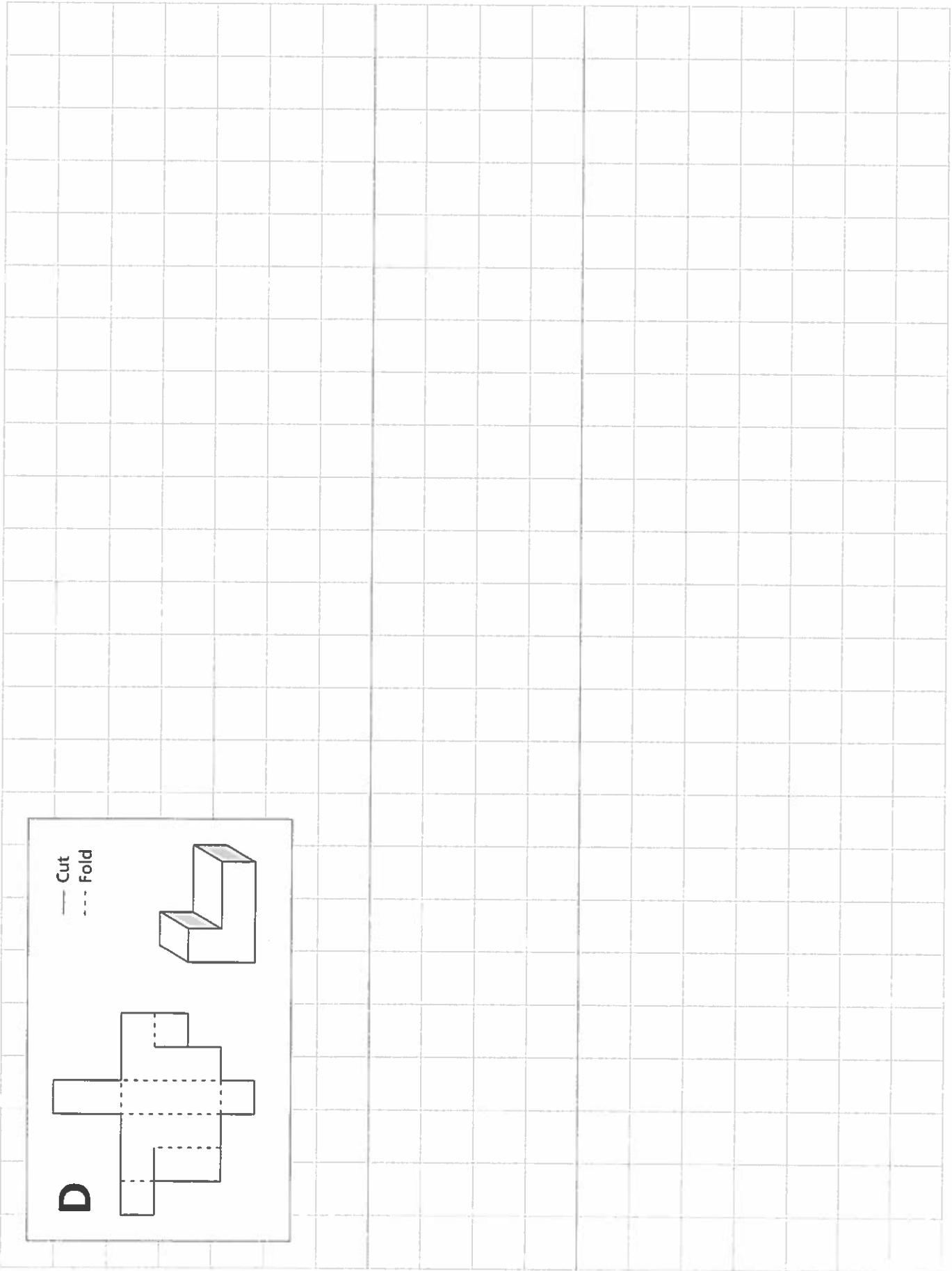
Lesson 2 Solving 1-Step Equations

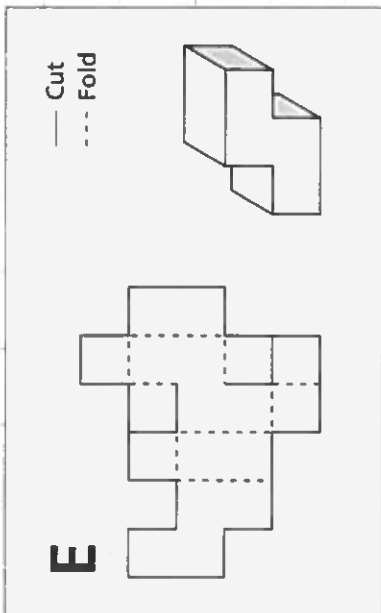
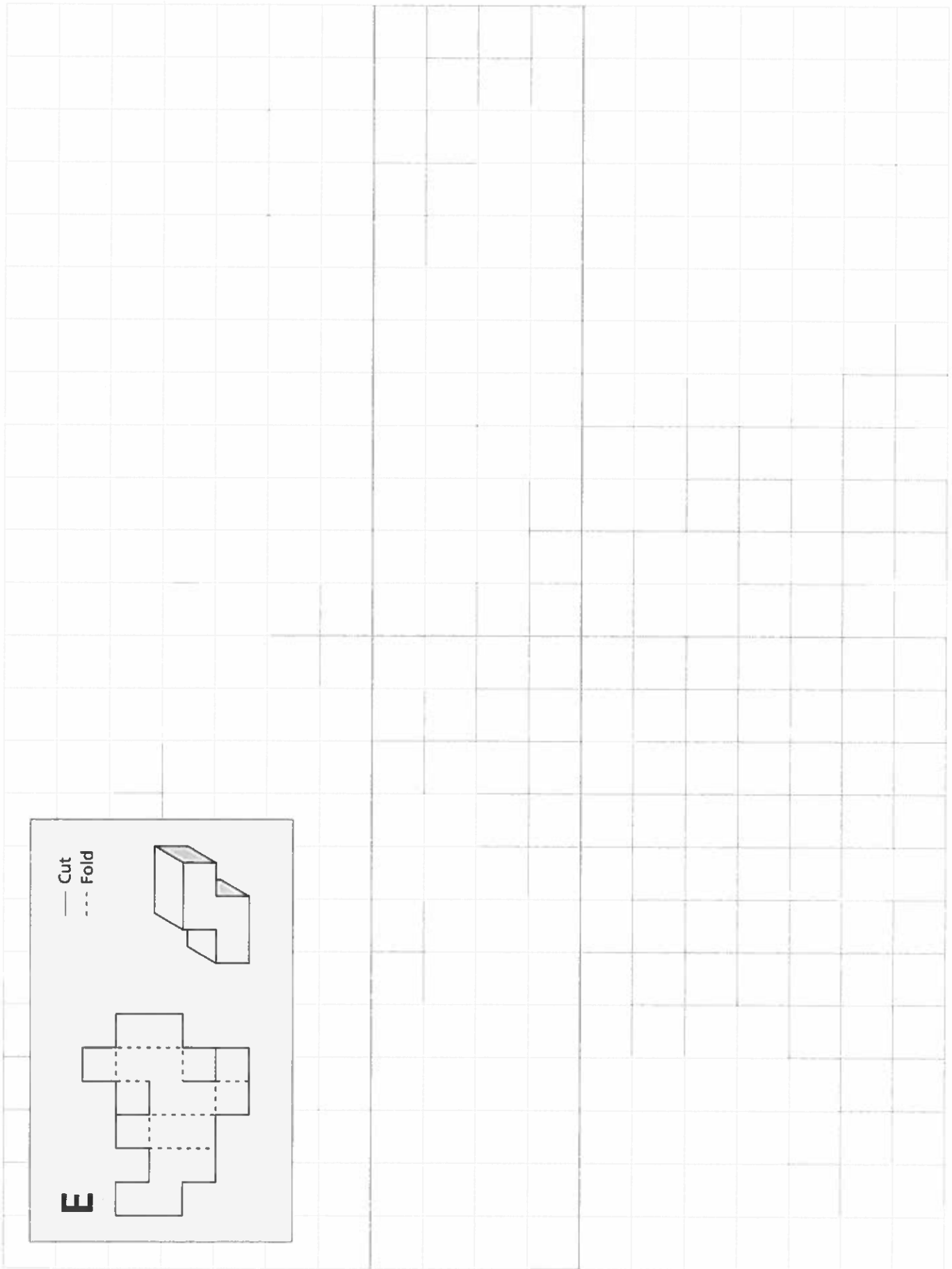


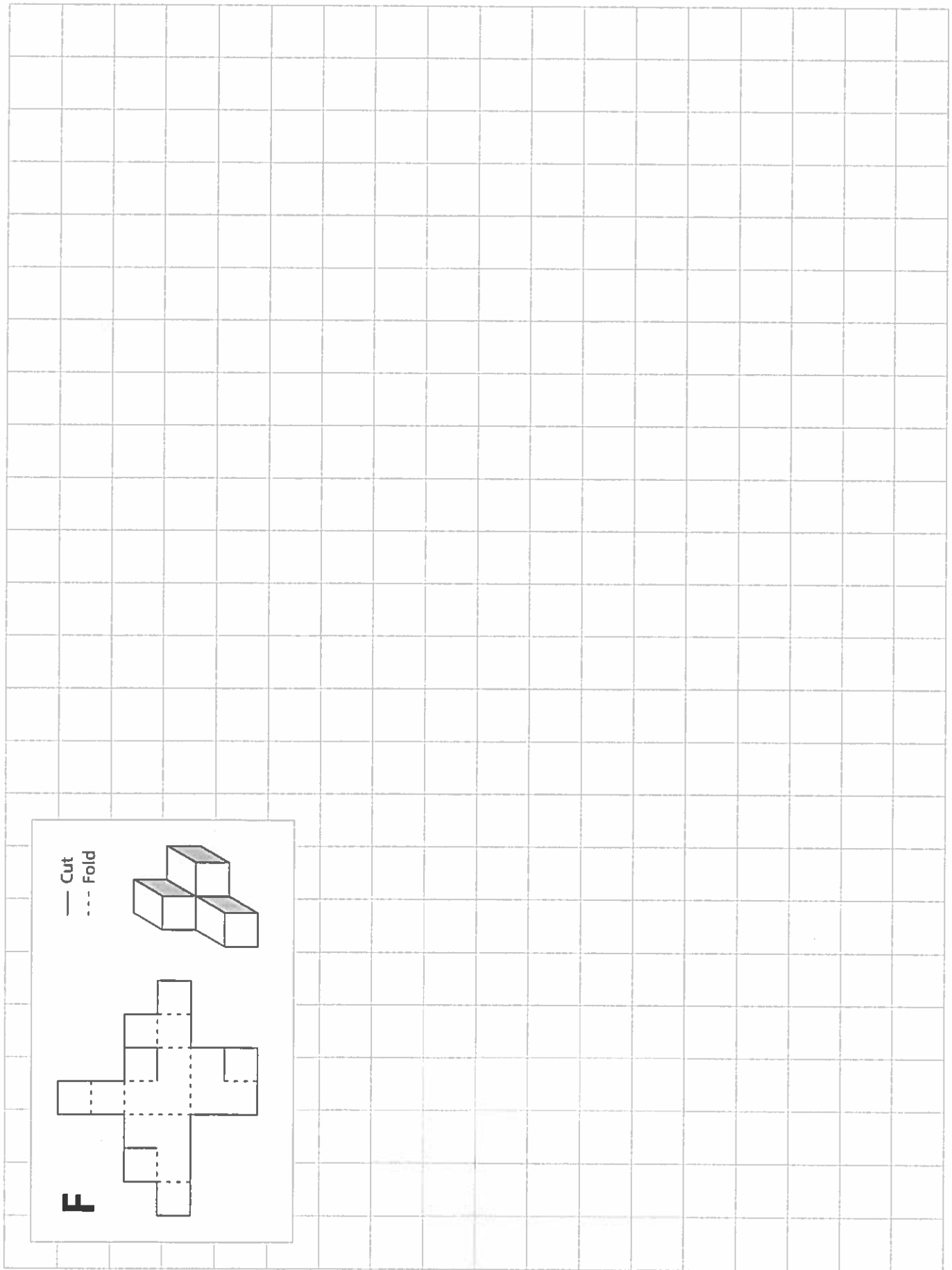
Unit 1 The Puzzle Cube

Lesson 2 Solving 1-Step Equations

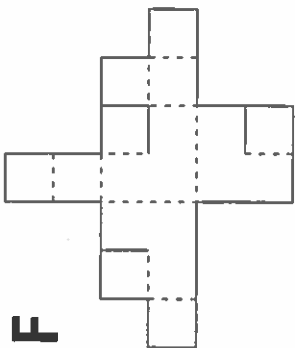
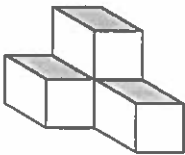




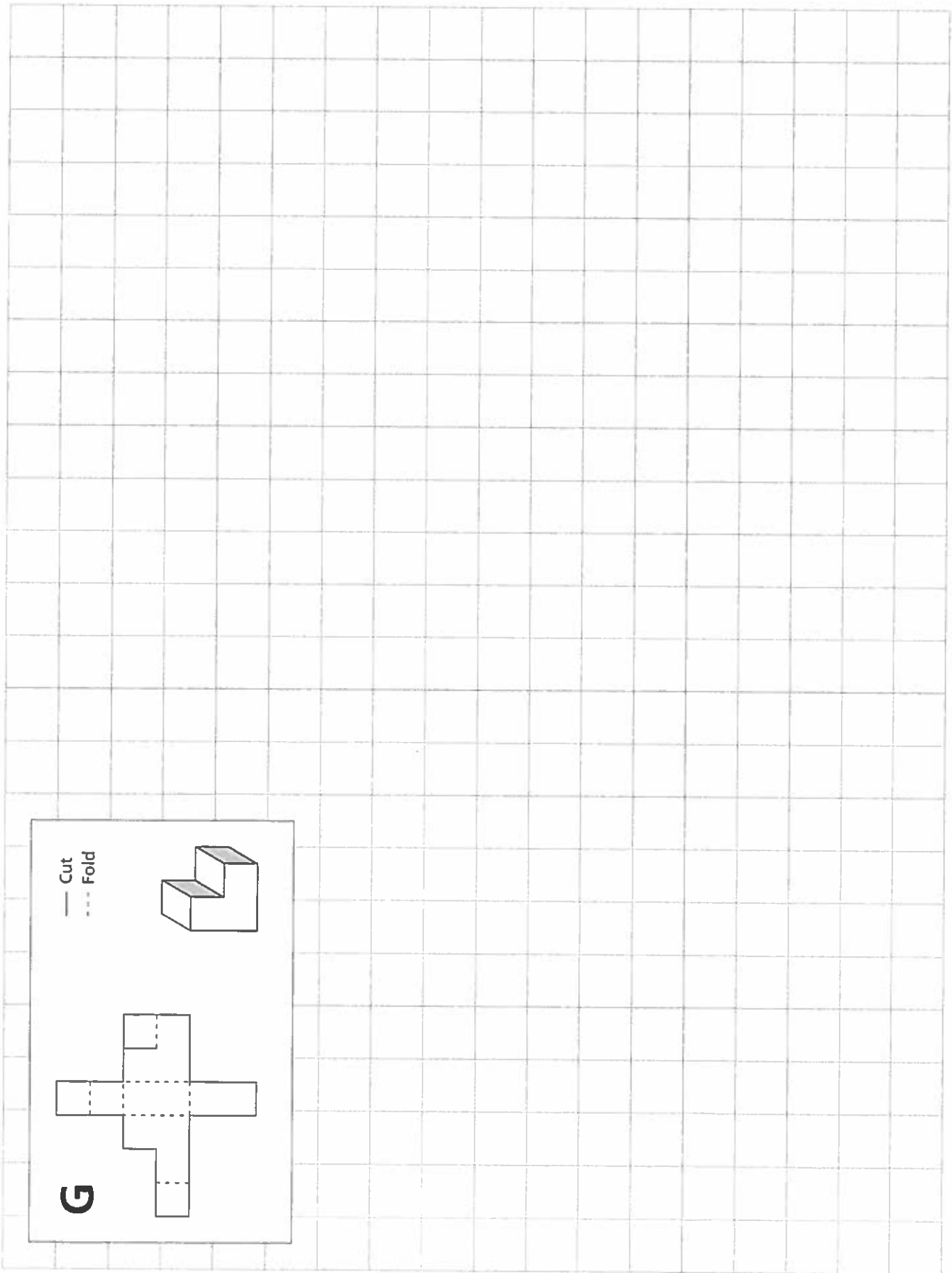




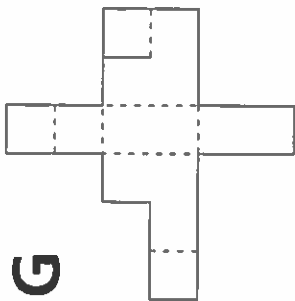
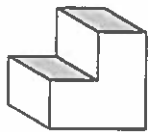
— Cut
- - - Fold



F



— Cut
- - - Fold



G