IMKH California

GRADE 6

Teacher Resource Copy Masters

UNITS 1-3

Illustrative Mathematics LEARN MATH FOR LIFE | Kendall Hunt

Book 1
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GRADE 6

UNIT

1

Teacher Resource Copy Masters

LESSON BLACKLINE MASTERS

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address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade6.1.1.1	6–12 Blank Math Community Chart	30	no	no	no	no	no	no
Activity Grade6.1.2.3	Composing Shapes Cutouts	2	no	yes	yes	no	no	no
Activity Grade6.1.3.1	Comparing Regions Handout	1	yes	yes	no	no	no	no
Activity Grade6.1.4.2	Area of a Parallelogram Cutouts	1	no	yes	no	no	no	no
Activity Grade6.1.7.3	A Tale of Two Triangles (Part 2) Cutouts	3	no	yes	yes	no	no	no
Activity Grade6.1.8.3	Decomposing a Parallelogram Cutouts	4	yes	yes	no	no	no	no
Activity Grade6.1.11.4	Pinwheel Handout	4	yes	no	no	no	no	no
Activity Grade6.1.13.1	Assembling Polyhedra Cutouts	12	no	yes	yes	no	no	no

SAMPLE COPY

address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade6.1.13.2	Prisms and Pyramids Cutouts	4	no	yes	yes	no	no	no
Activity Grade6.1.13.3	Assembling Polyhedra Cutouts	6	yes	no	no	no	no	no
Activity Grade6.1.14.1	Matching Nets Cutouts	2	no	yes	no	no	no	no
Activity Grade6.1.14.2	Using Nets to Find Surface Area Cutouts	3	yes	no	no	no	no	no
Activity Grade6.1.15.2	Building Prisms and Pyramids Cards	9	yes	no	no	no	no	no

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Math Community	
Doing Math	**Norms**
Students Looks like / Sounds like	**Students**
Teacher Looks like / Sounds like	**Teacher**

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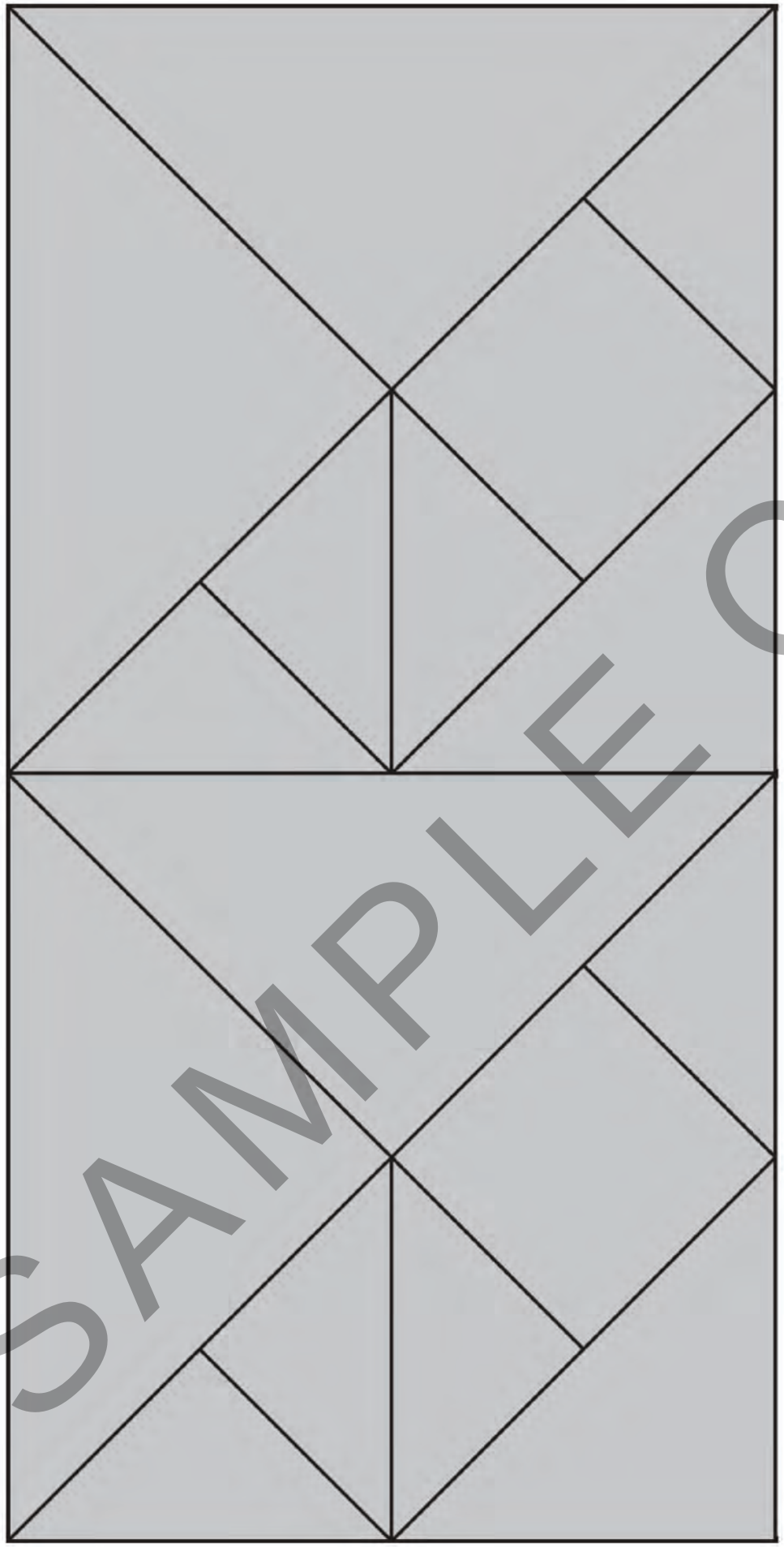

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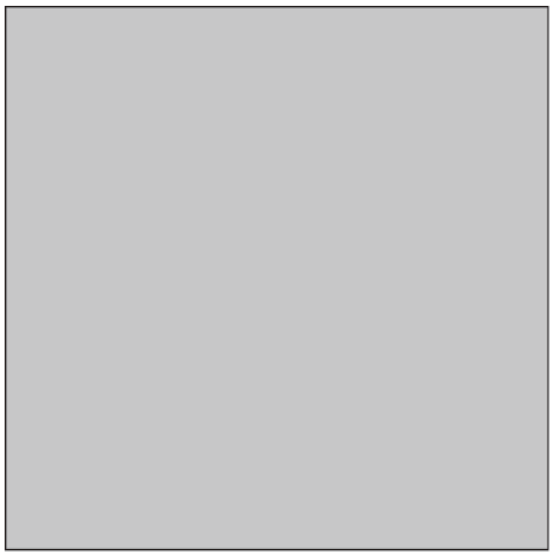

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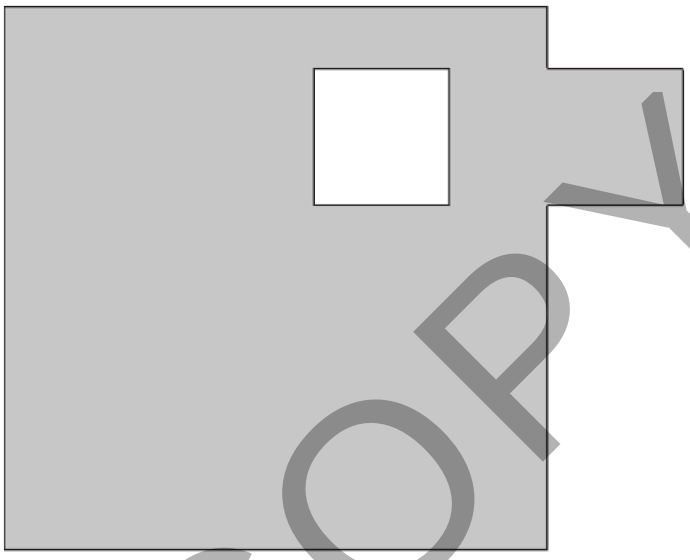

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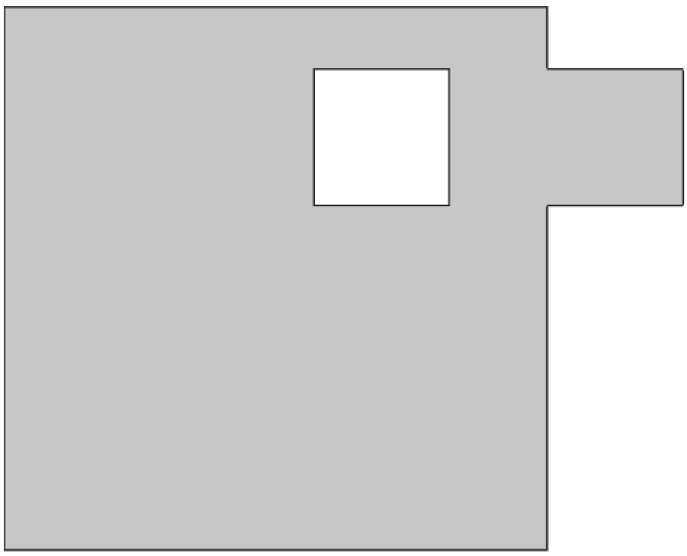

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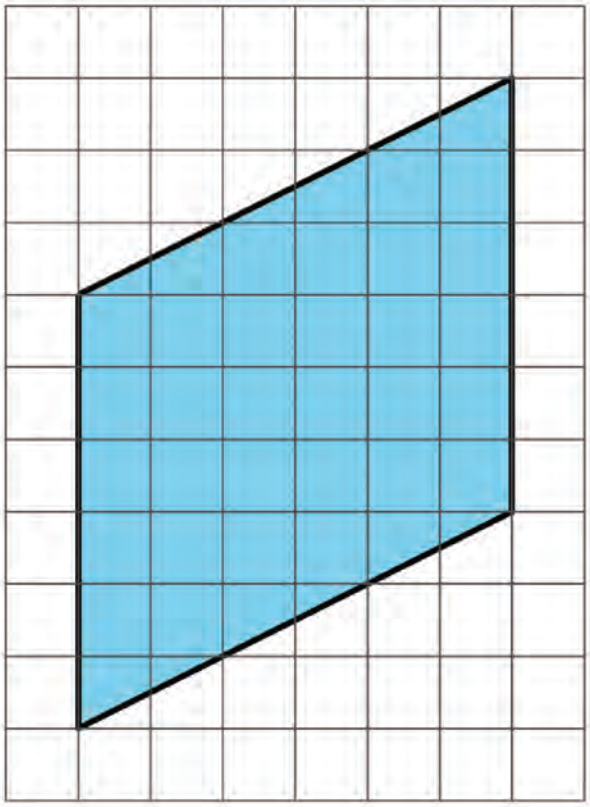

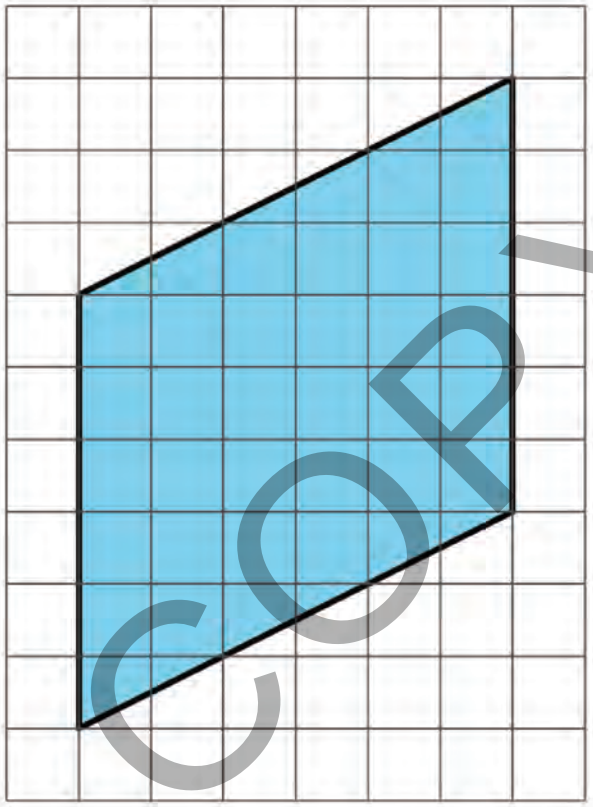

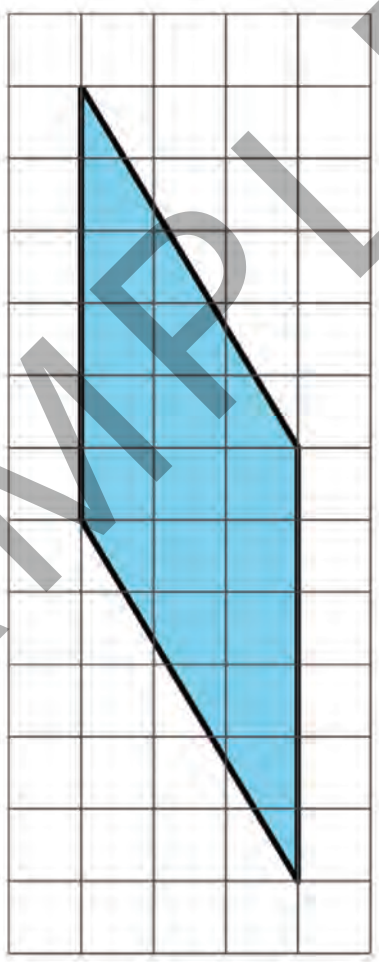

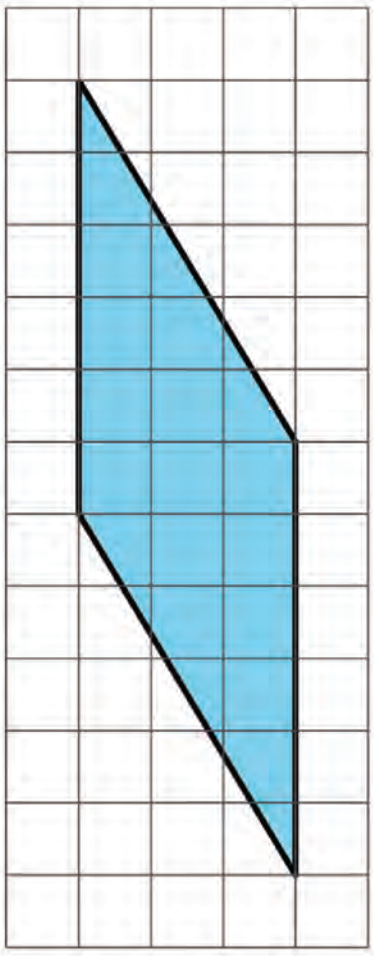

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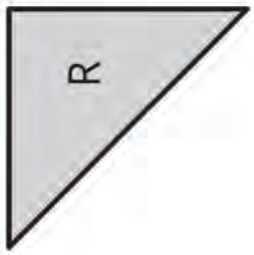
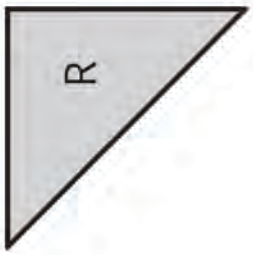
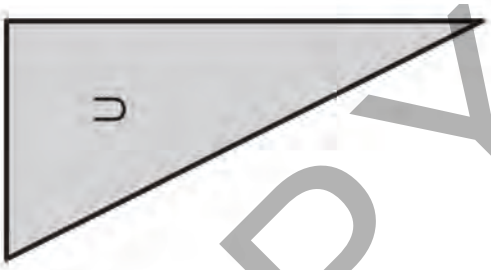
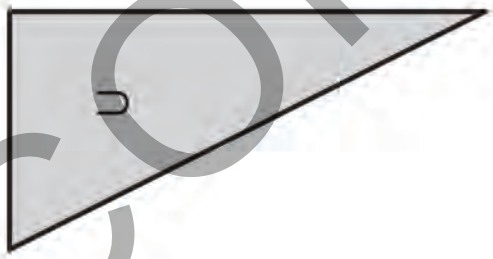
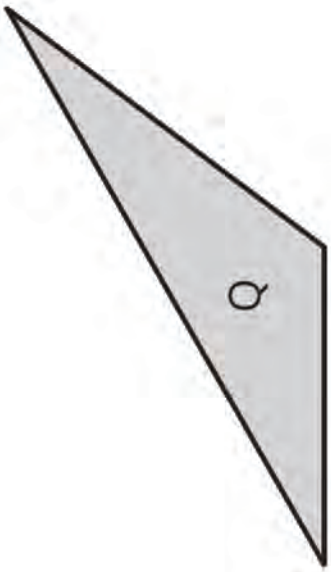
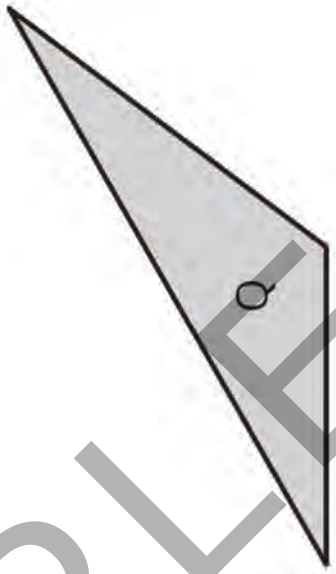


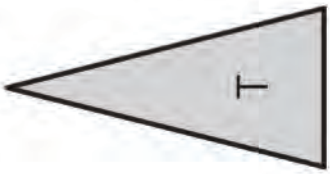


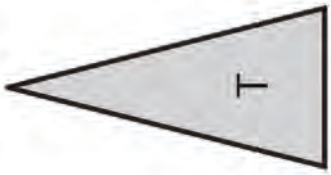


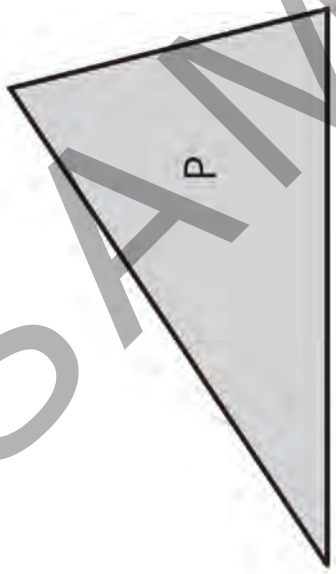


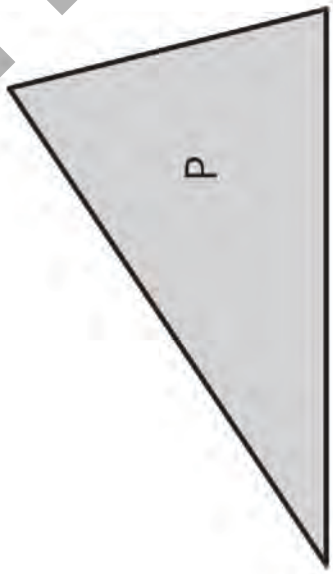






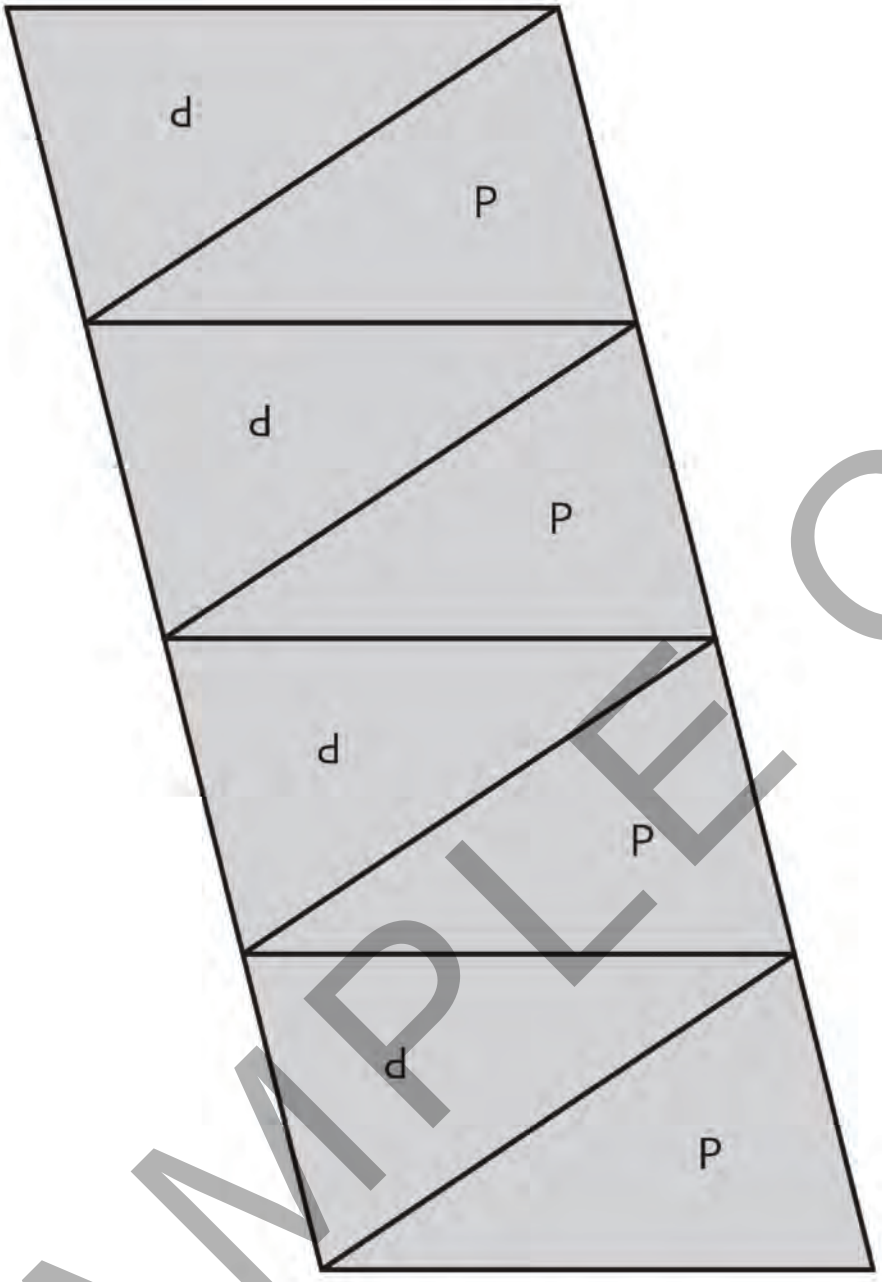


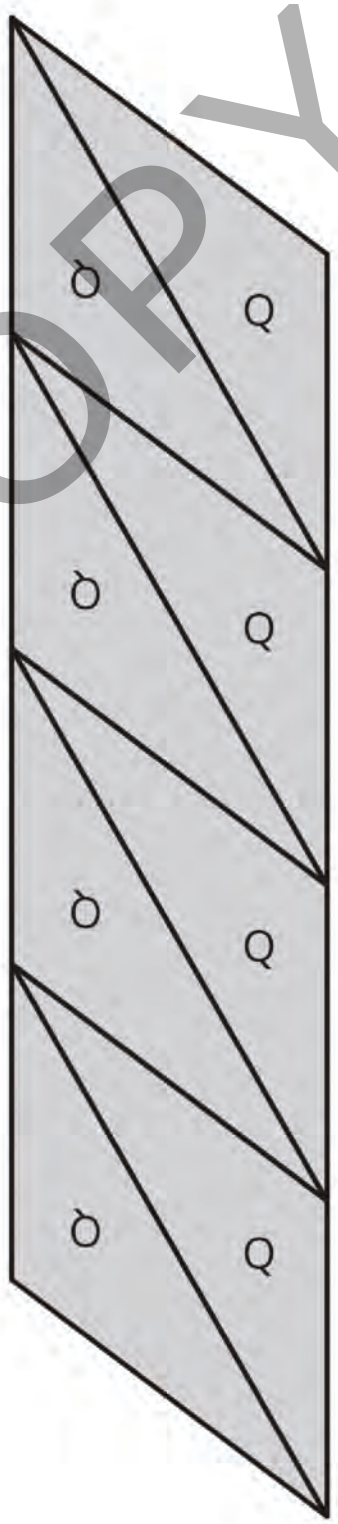




SAMPLE COPY

Use this blackline master if triangles are pre-cut by teacher.





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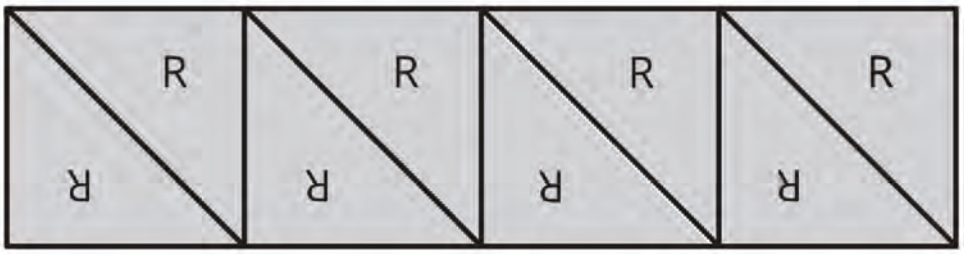
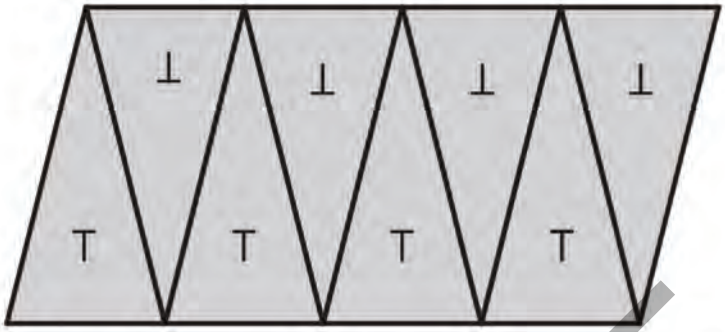
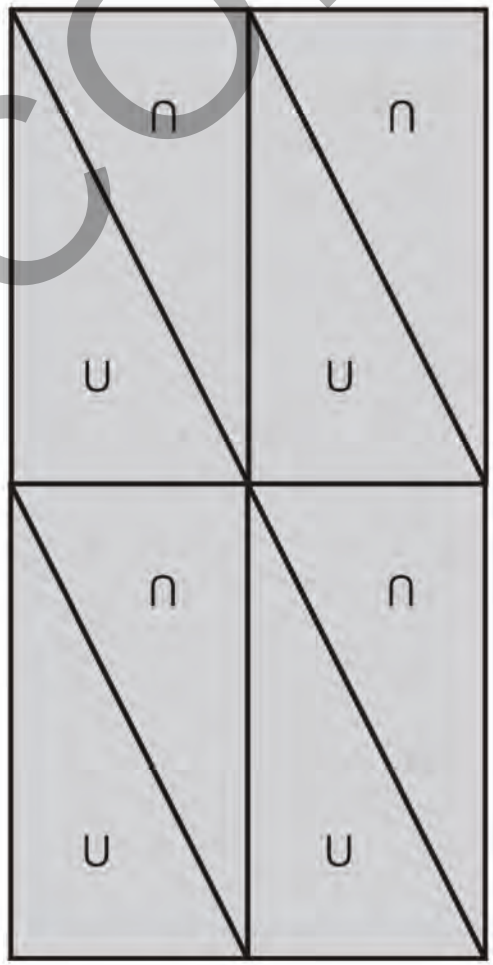
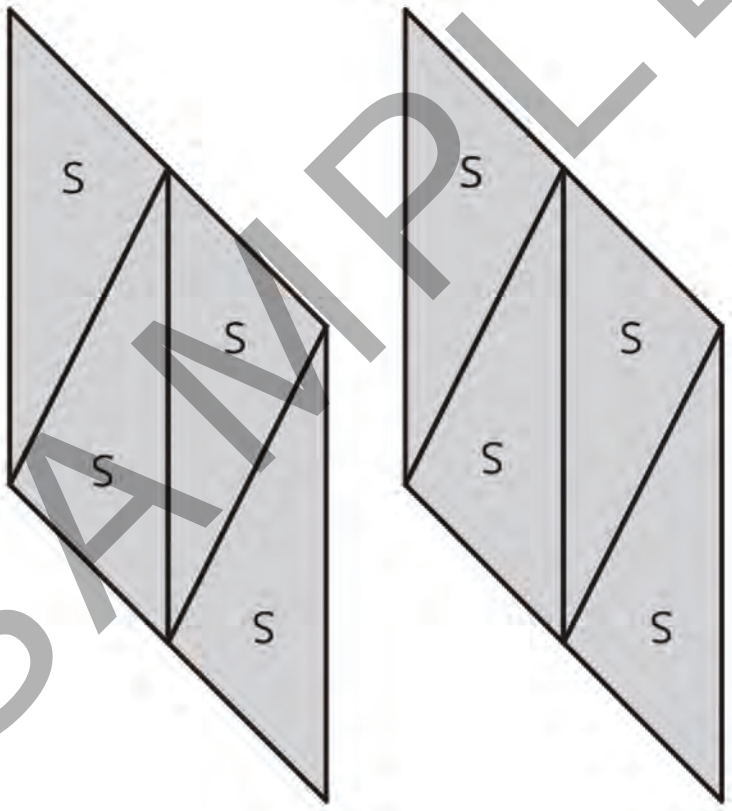


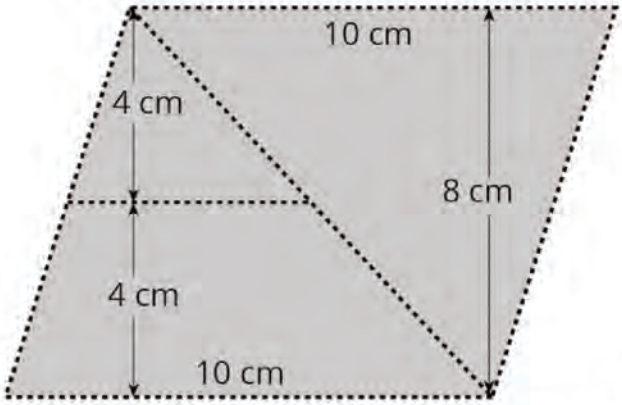


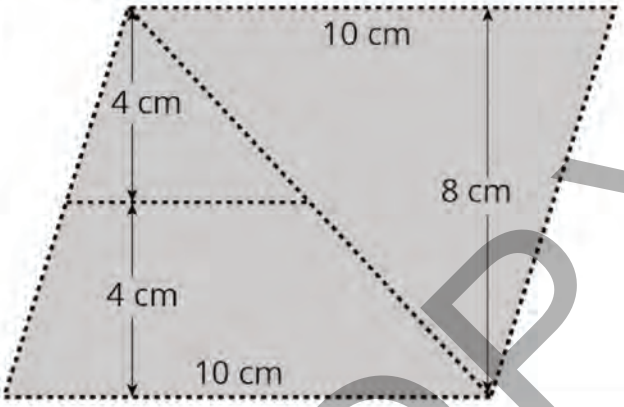




SAMPLE COPY

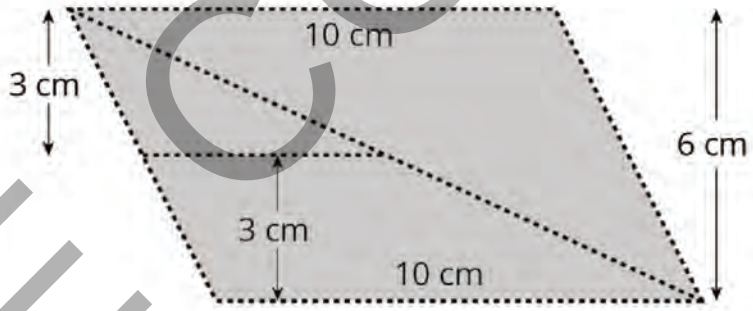
Parallelogram A

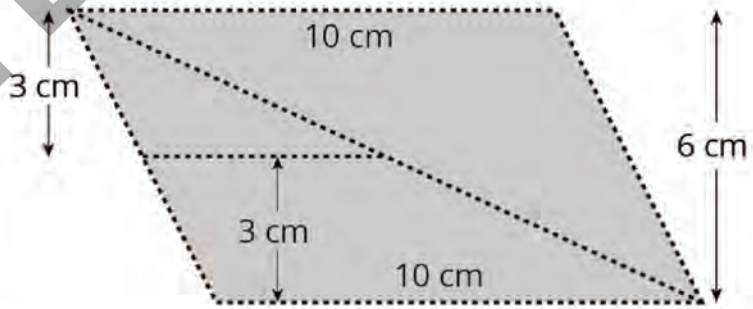




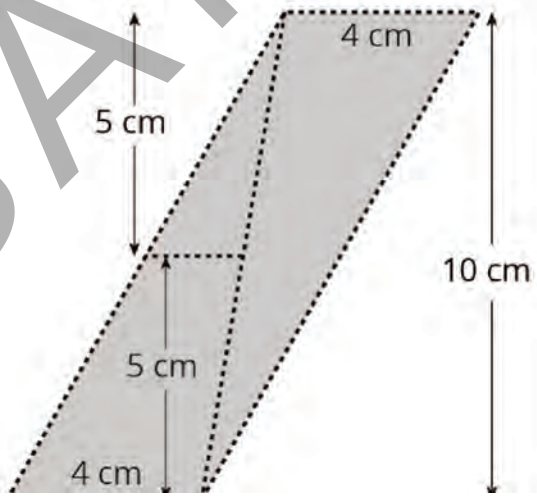
Parallelogram B

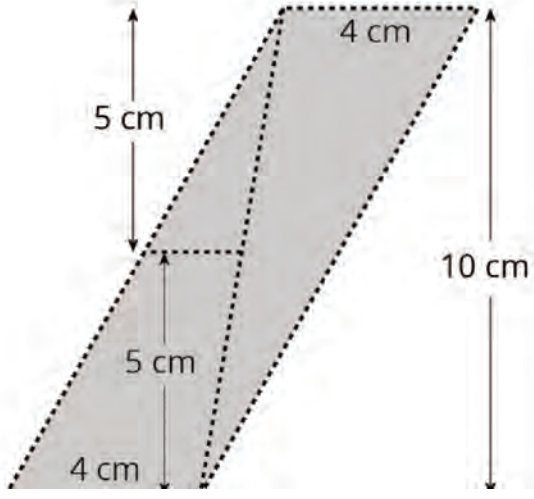
Parallelogram C





Parallelogram D





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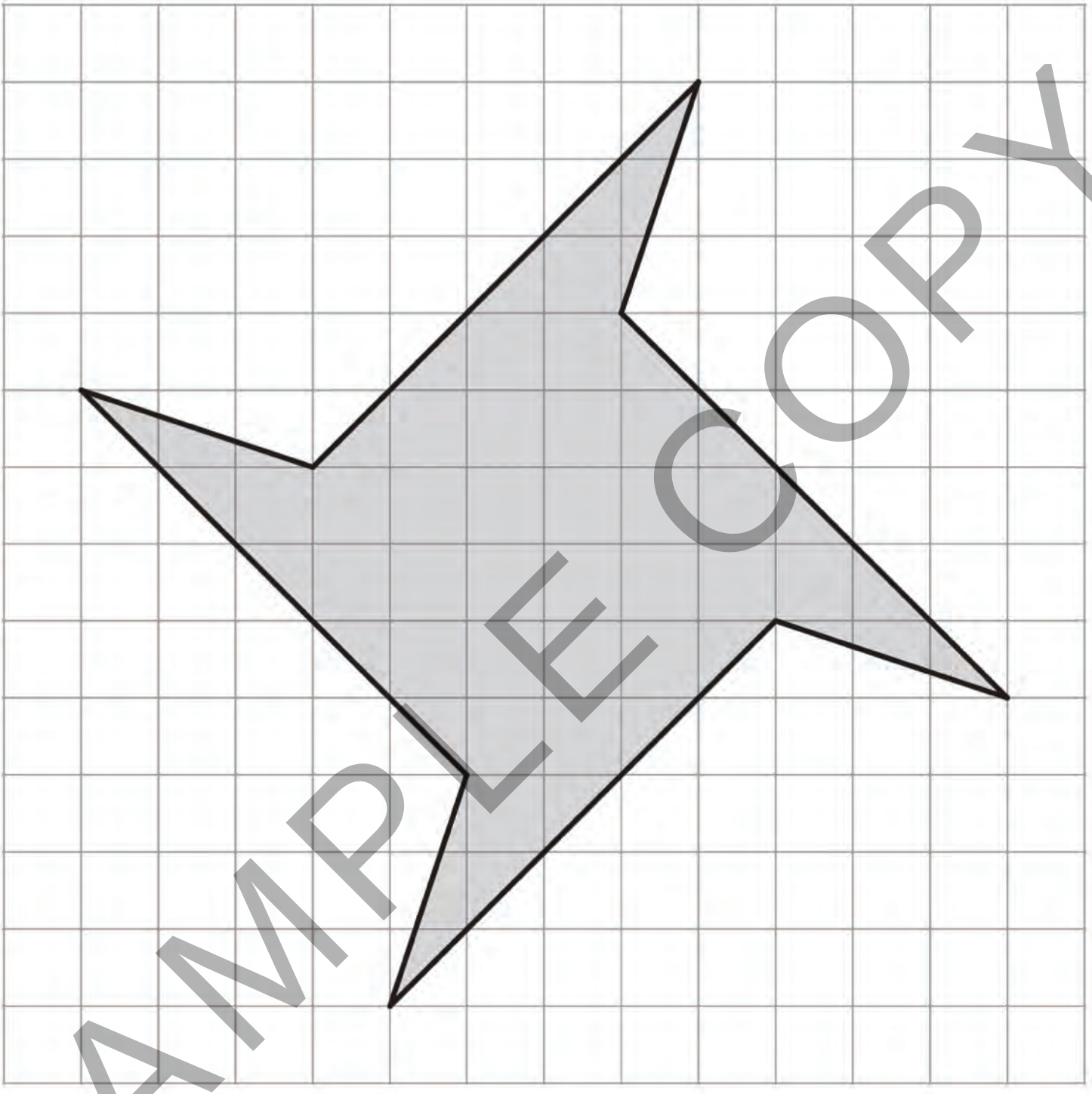

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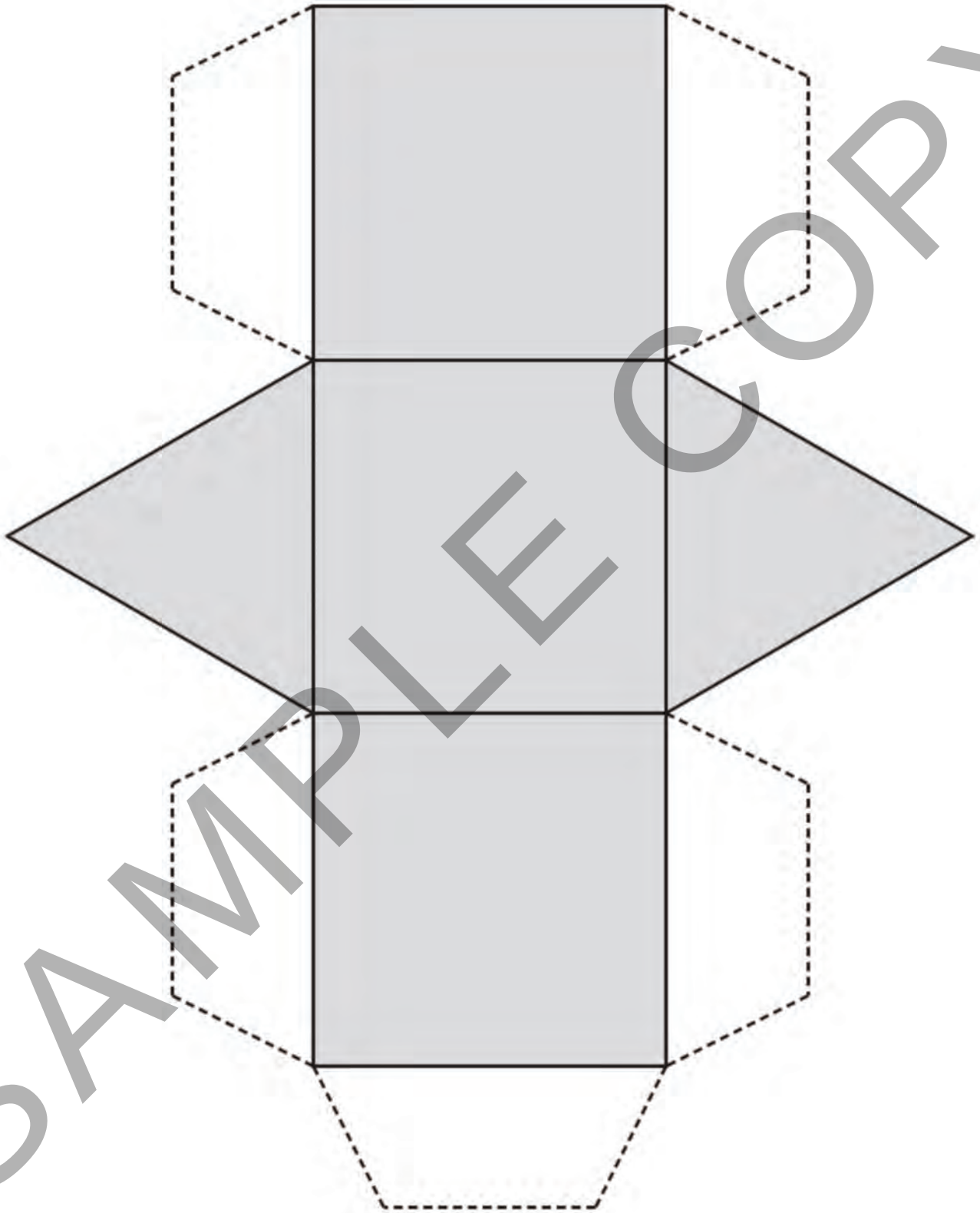

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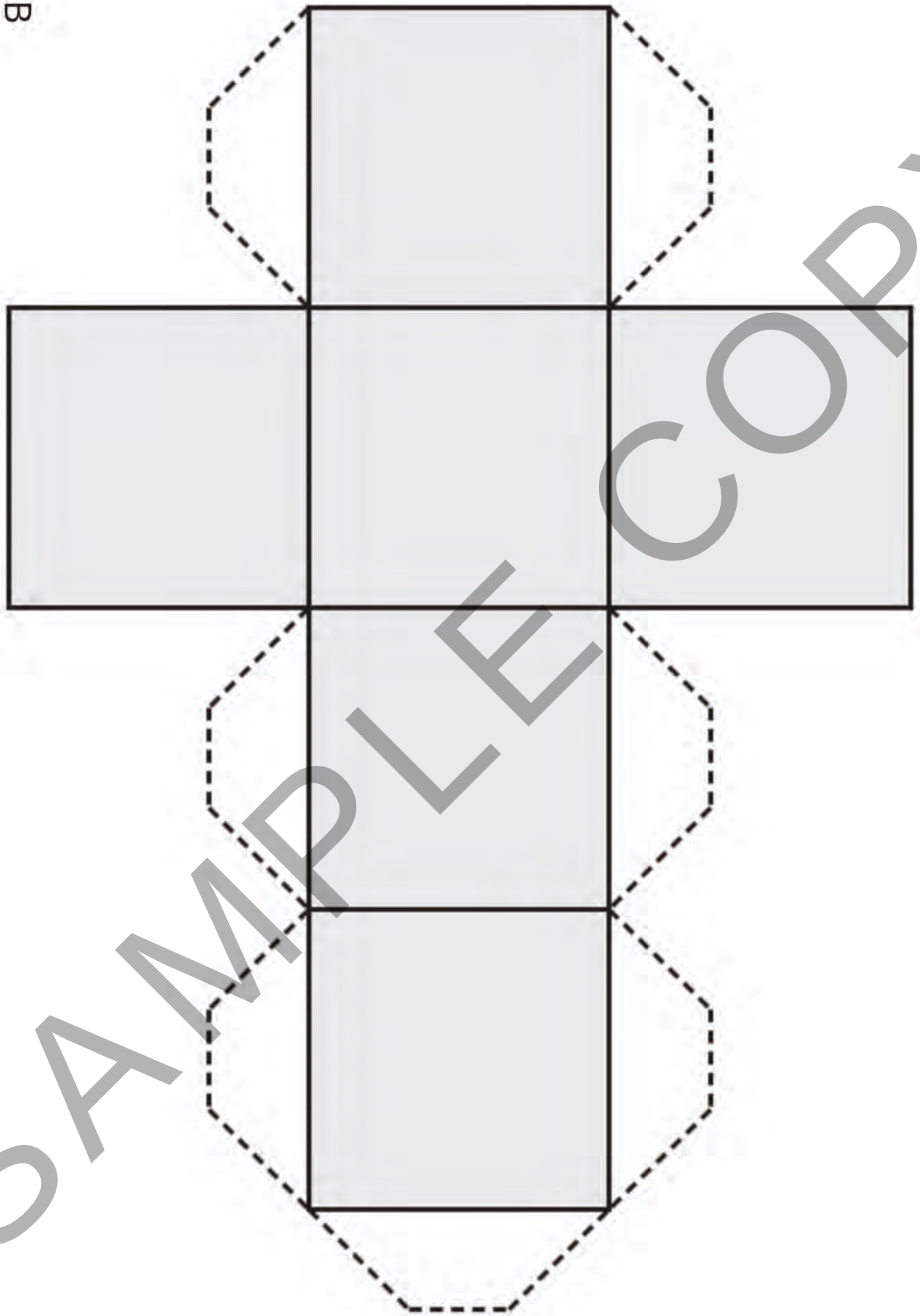

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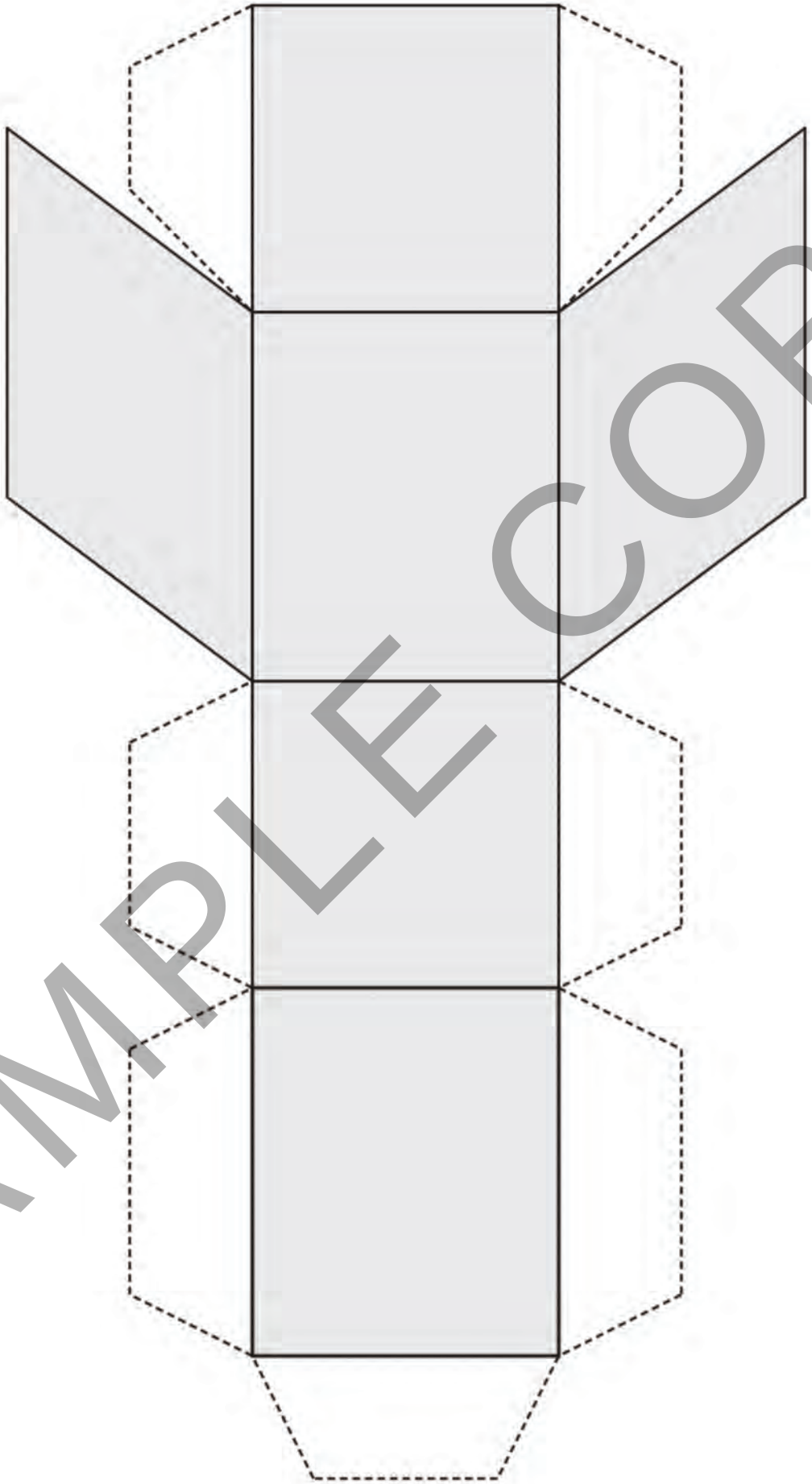

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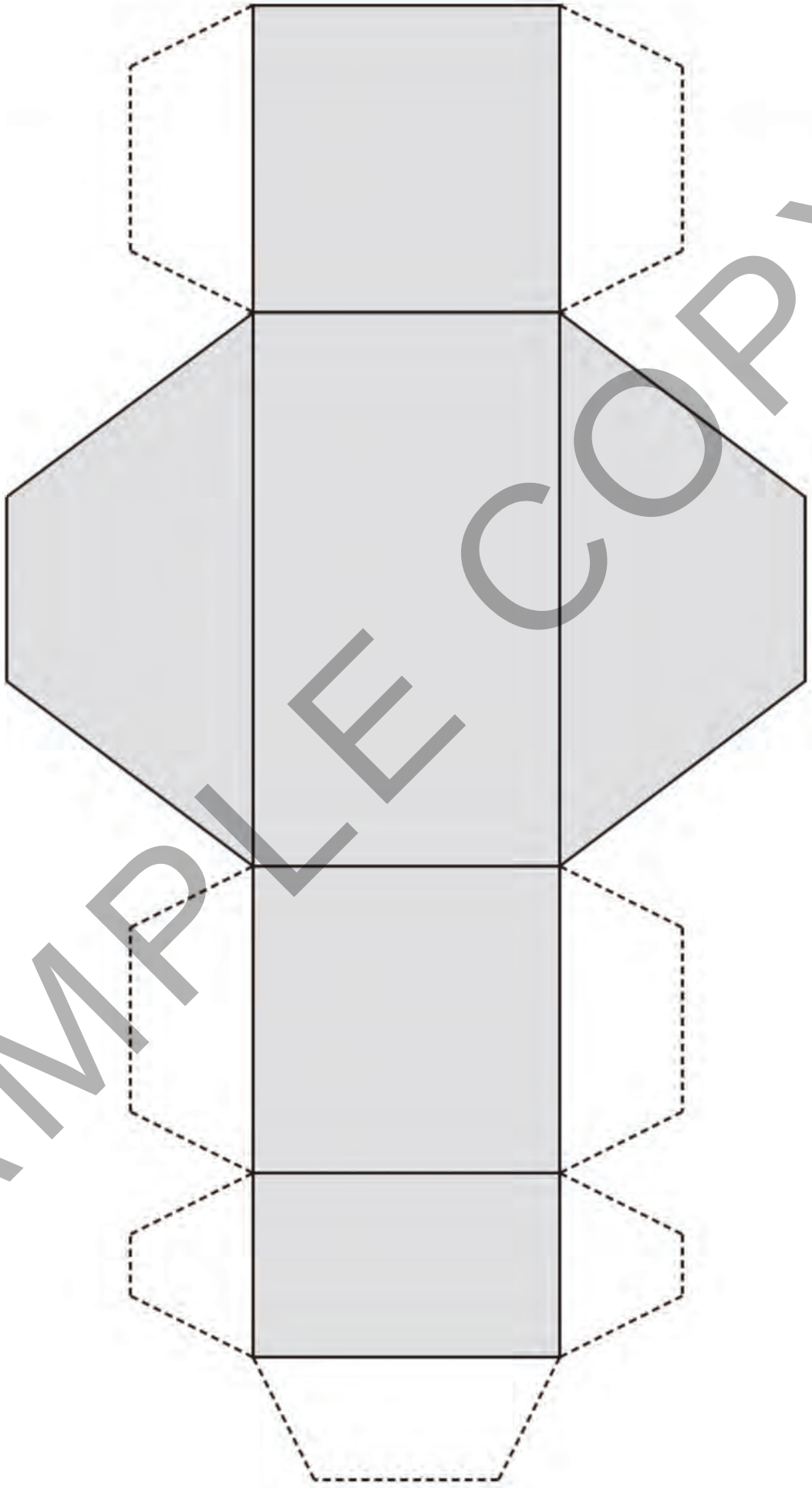

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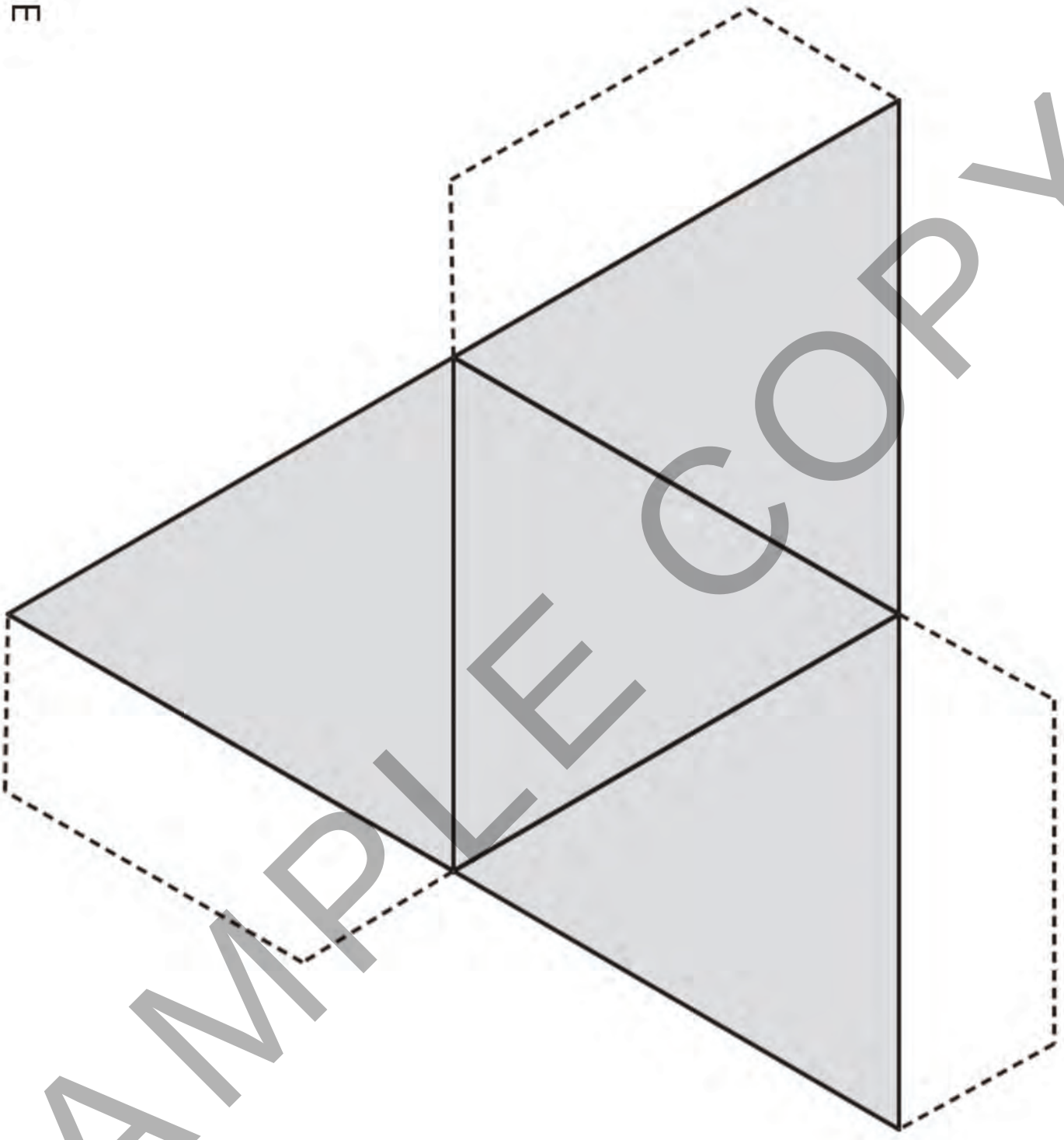

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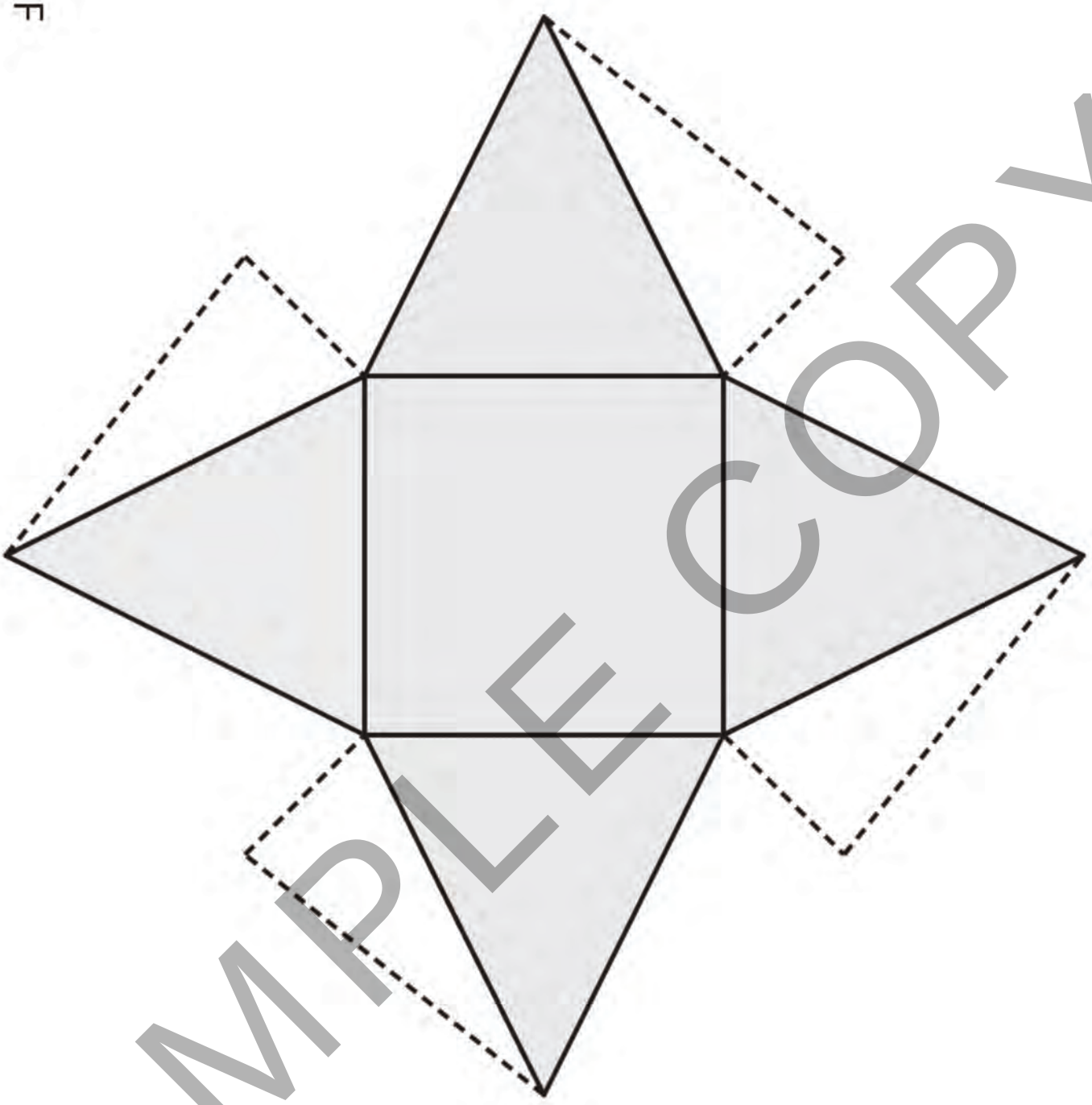

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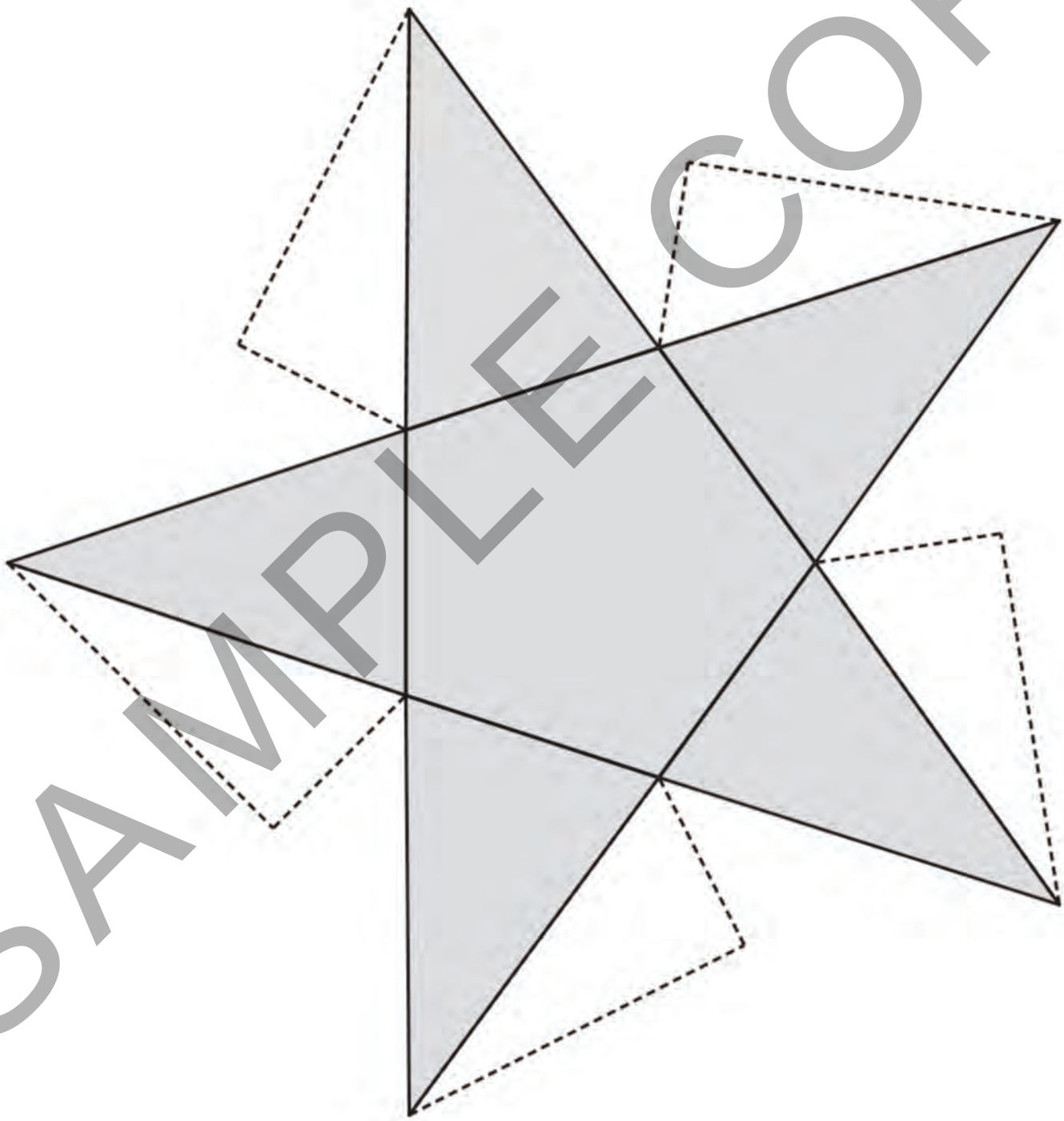

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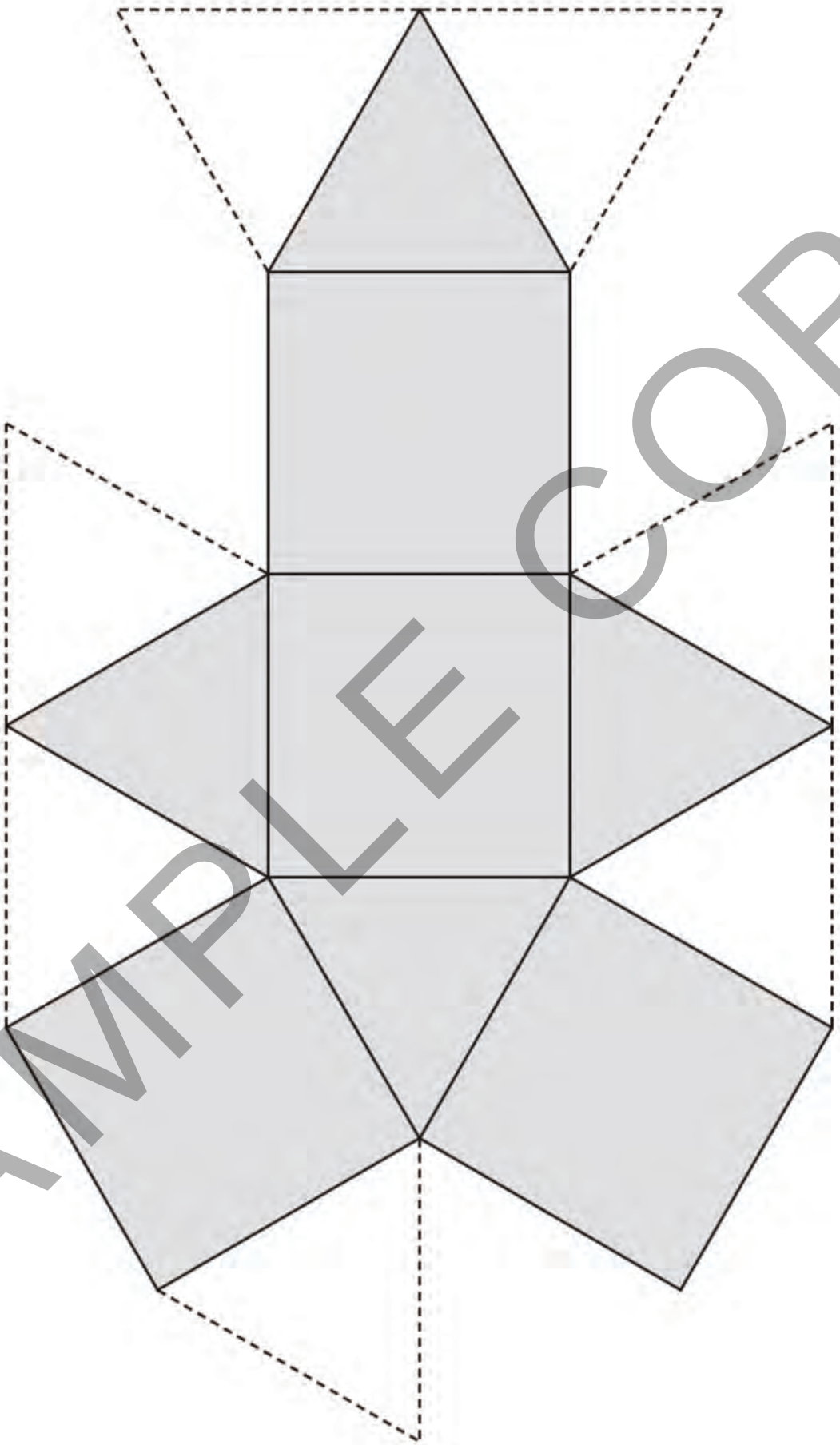

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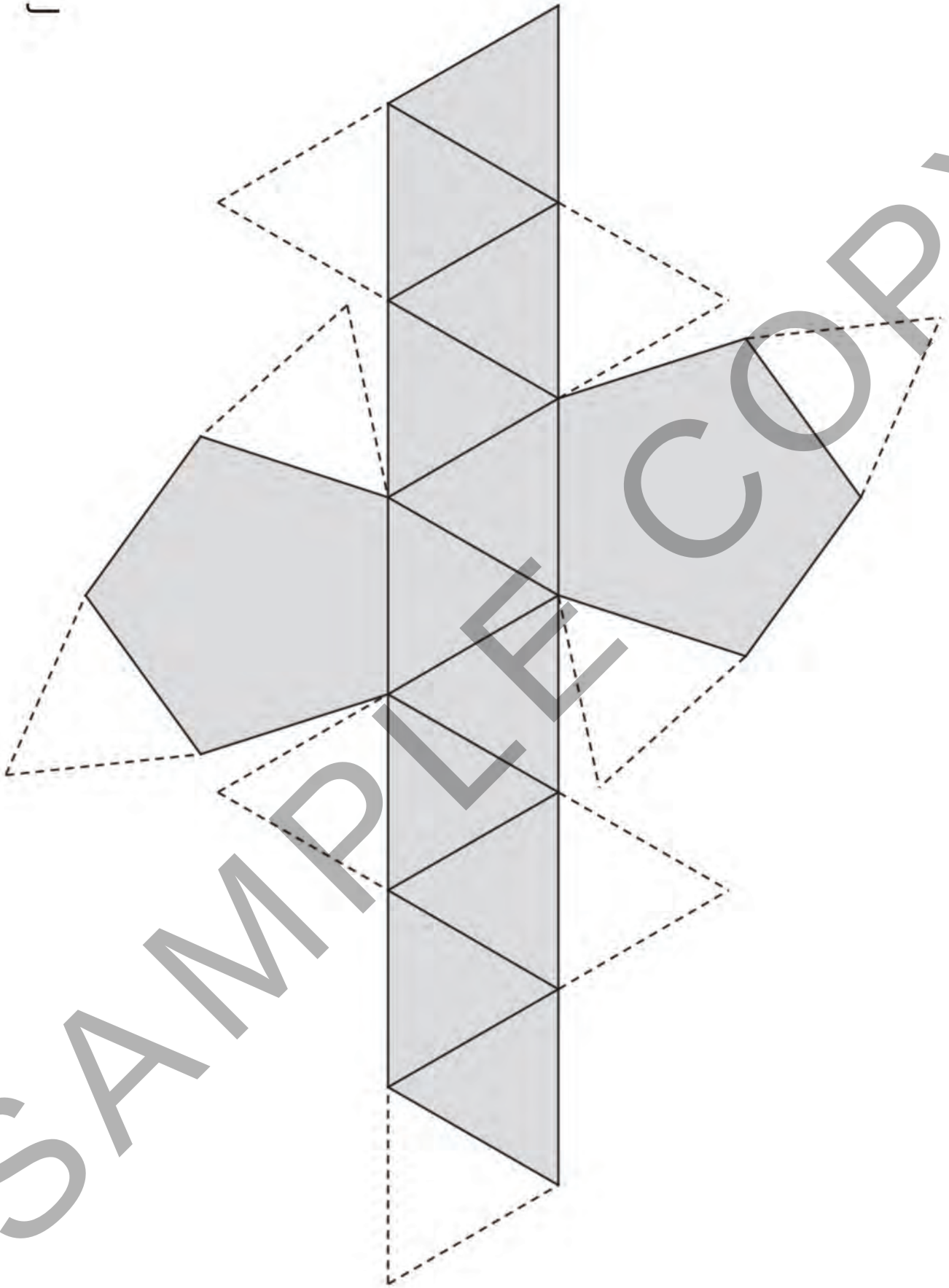

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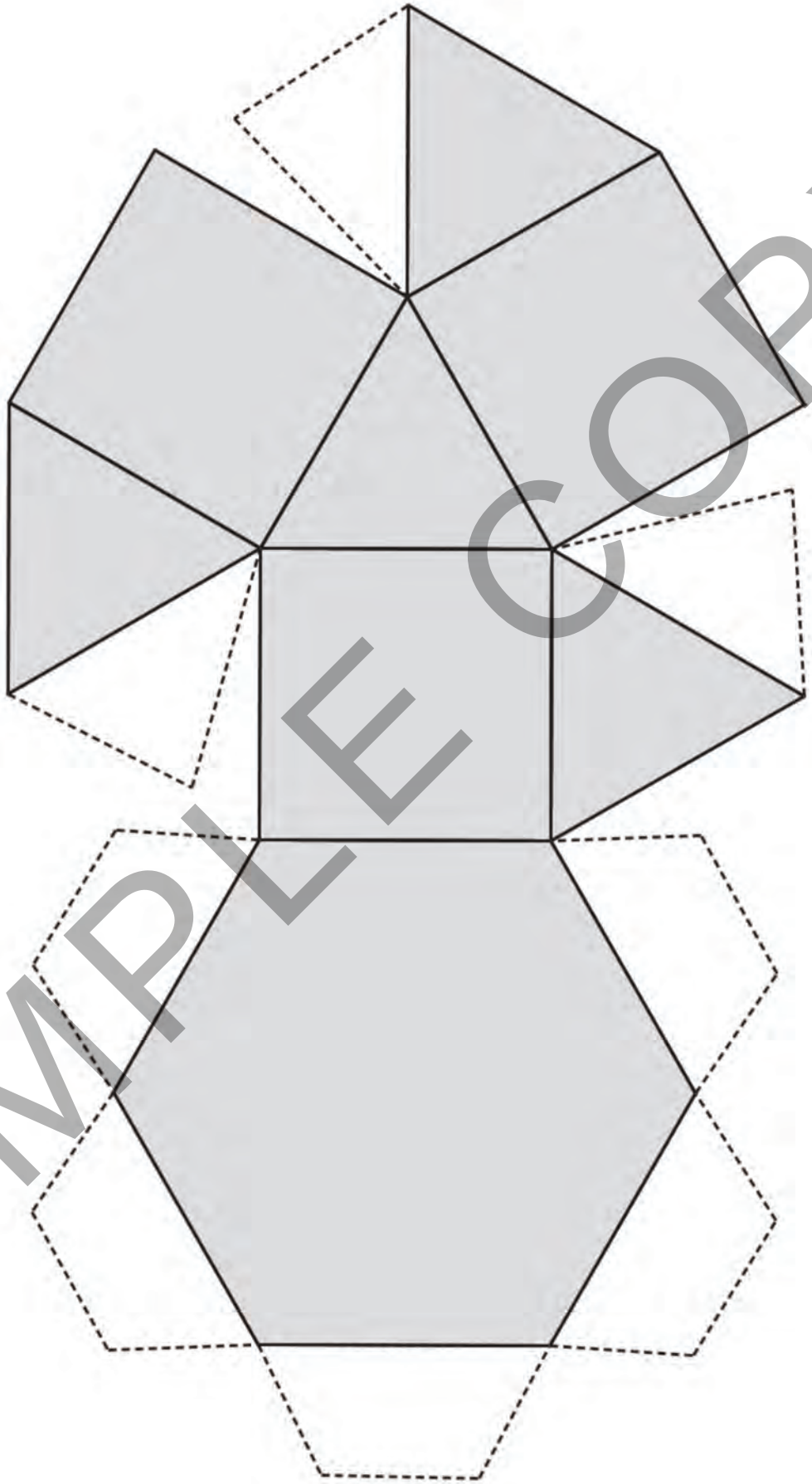

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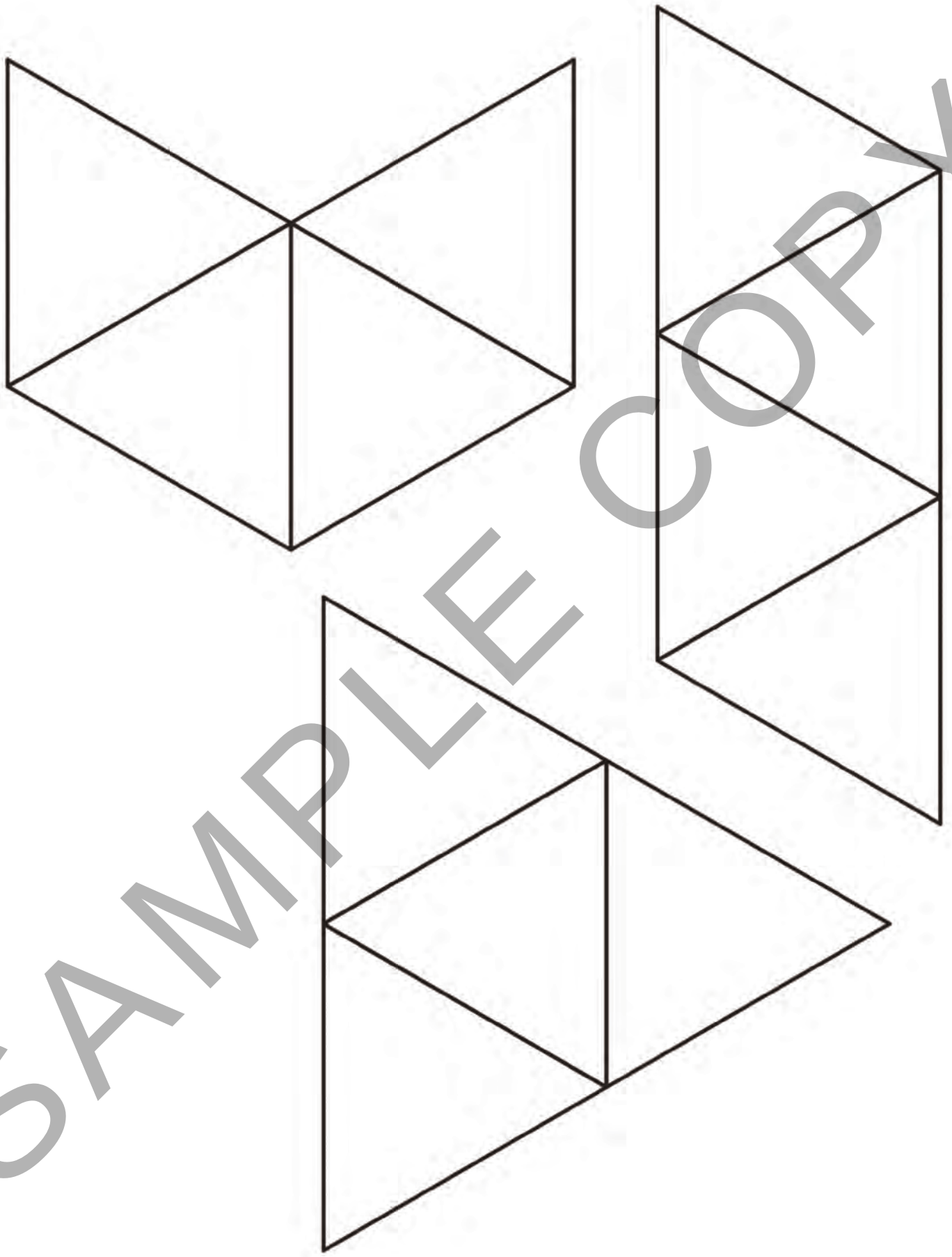

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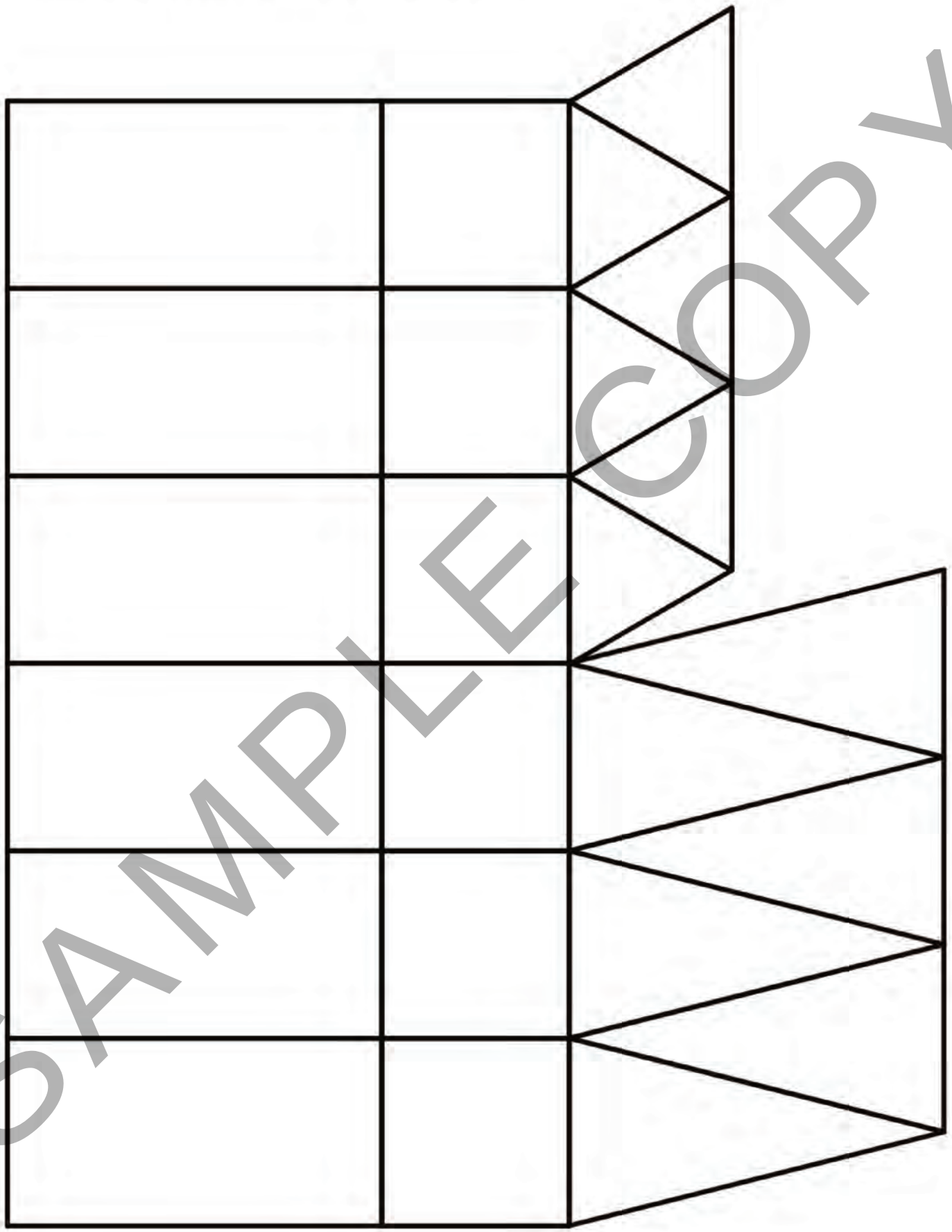
Not a net. Cut out polygons to assemble a set.



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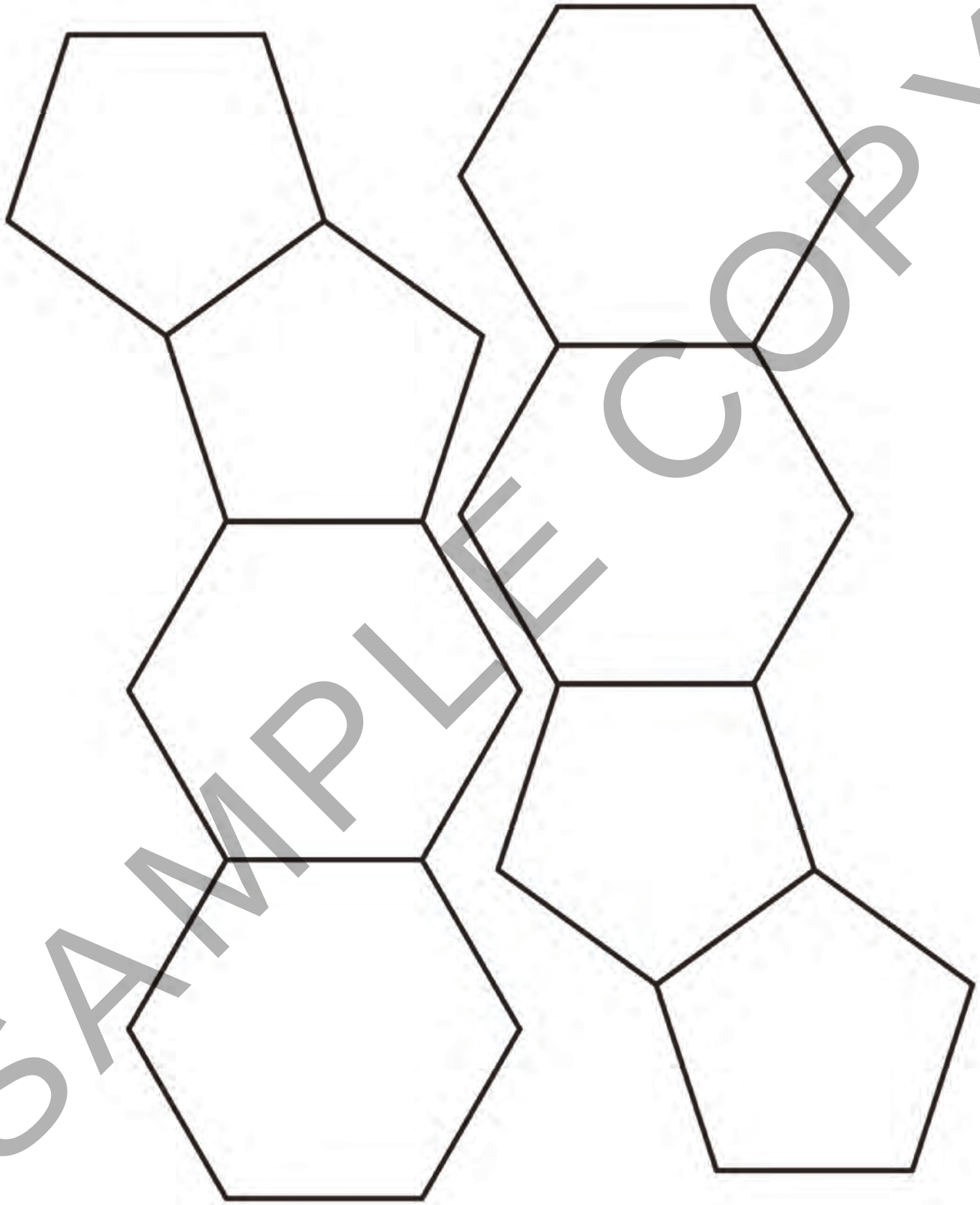

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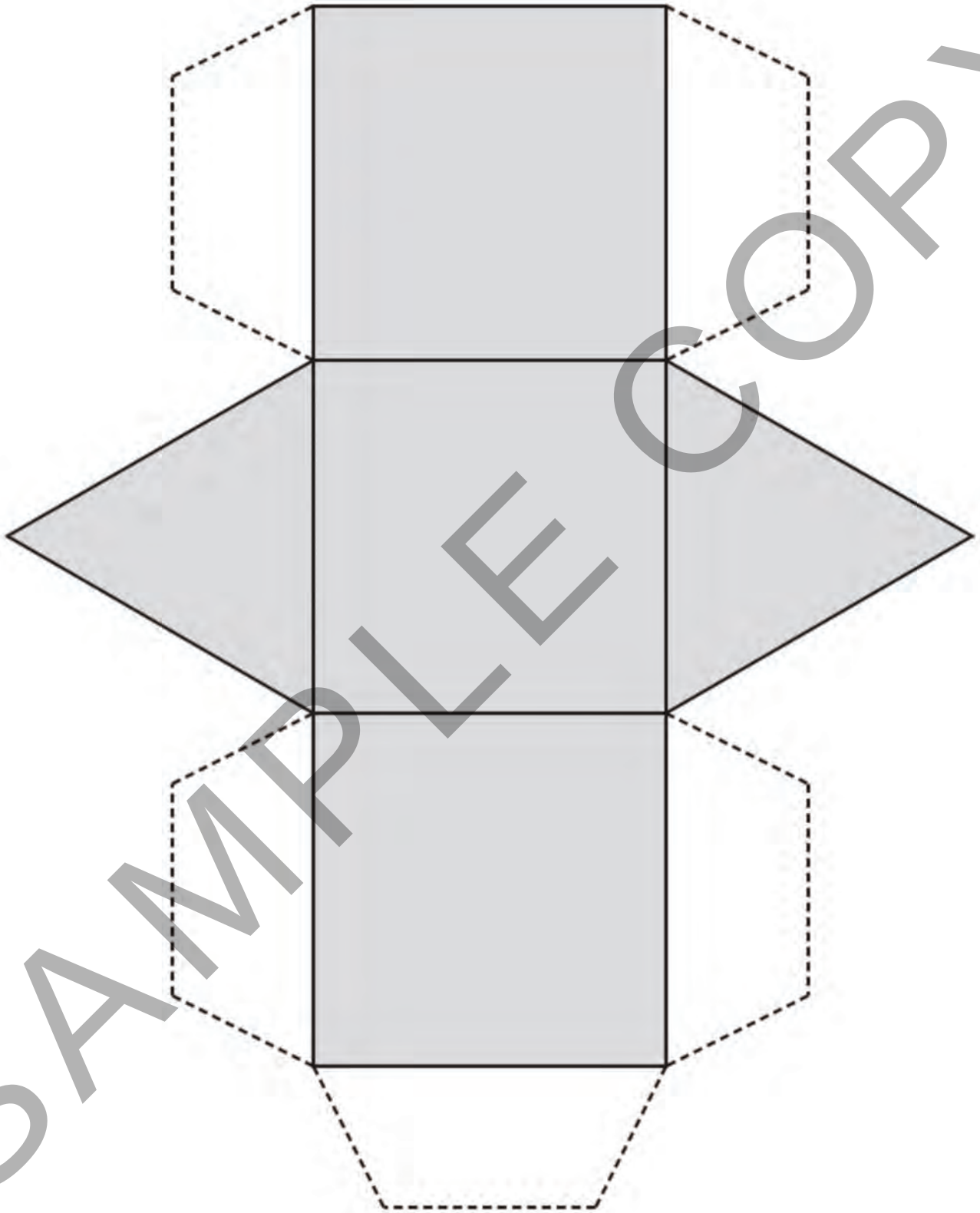

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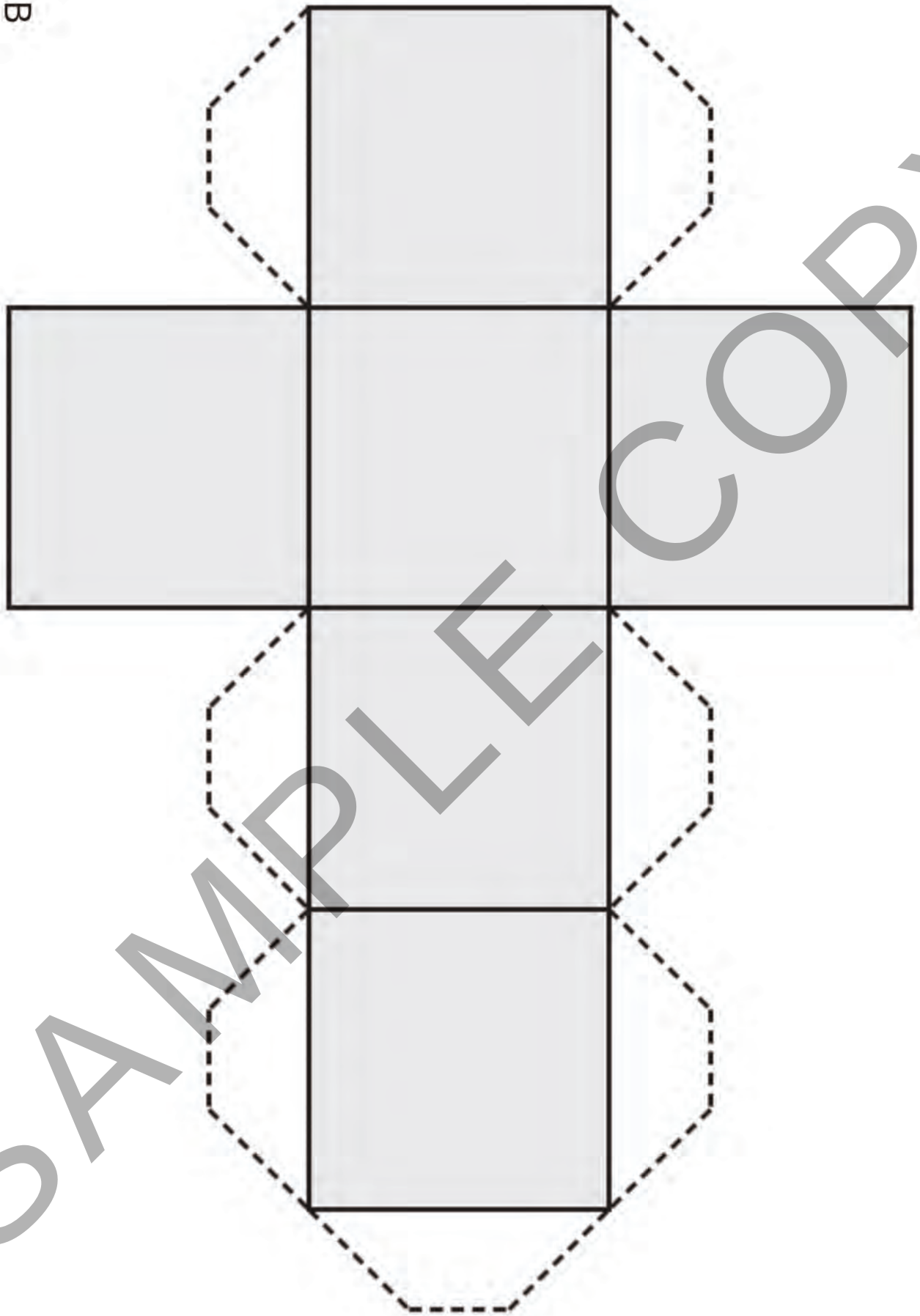

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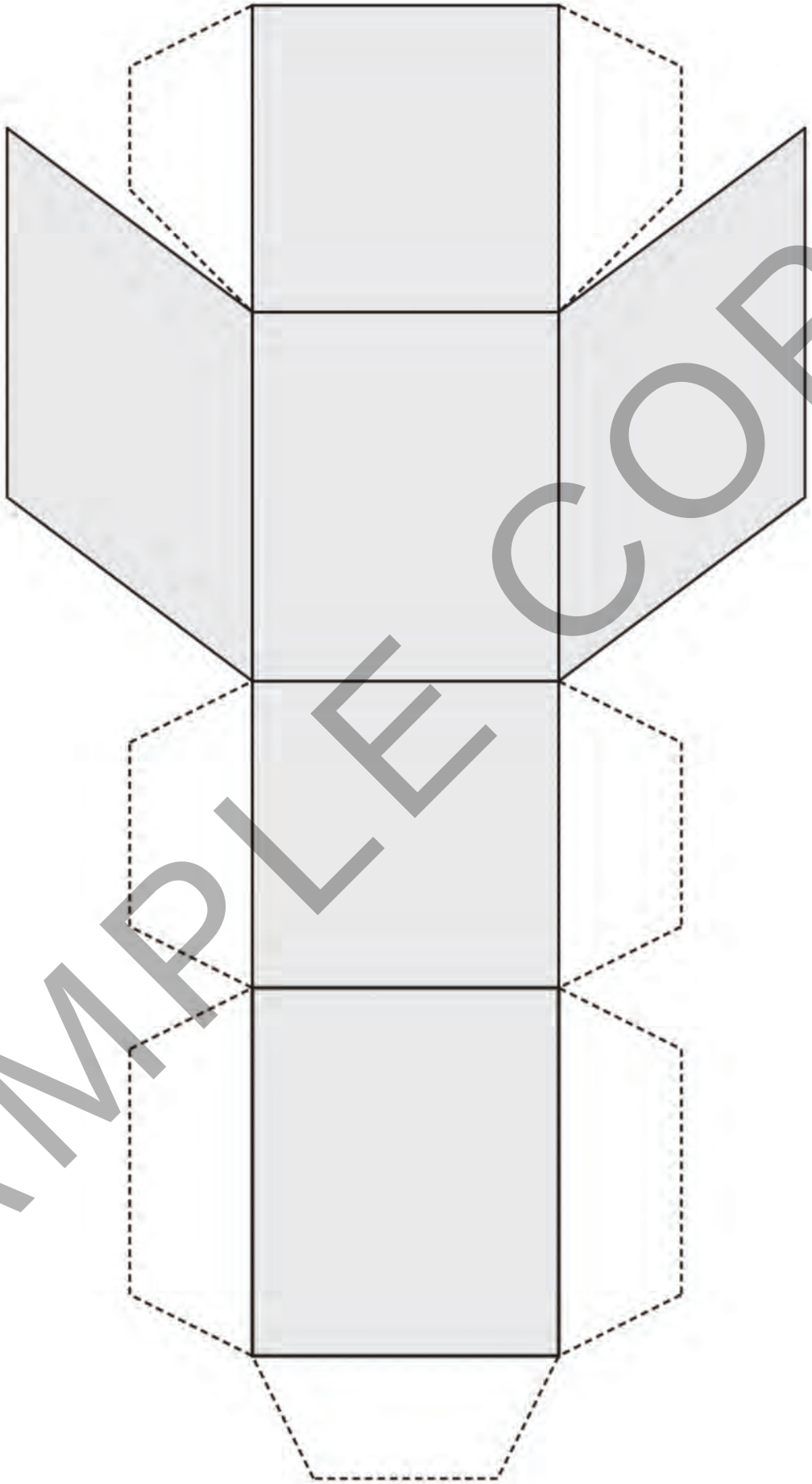

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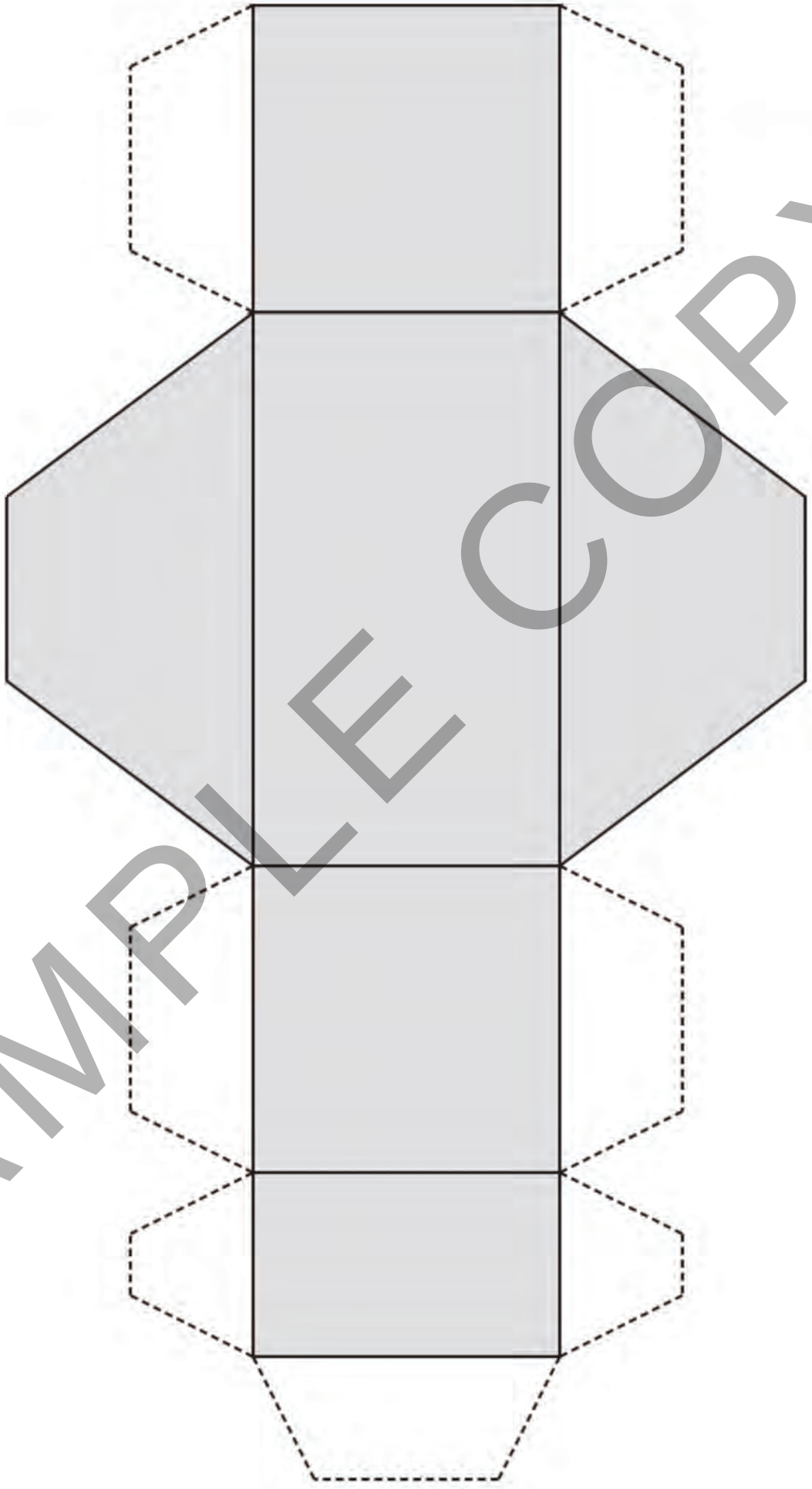

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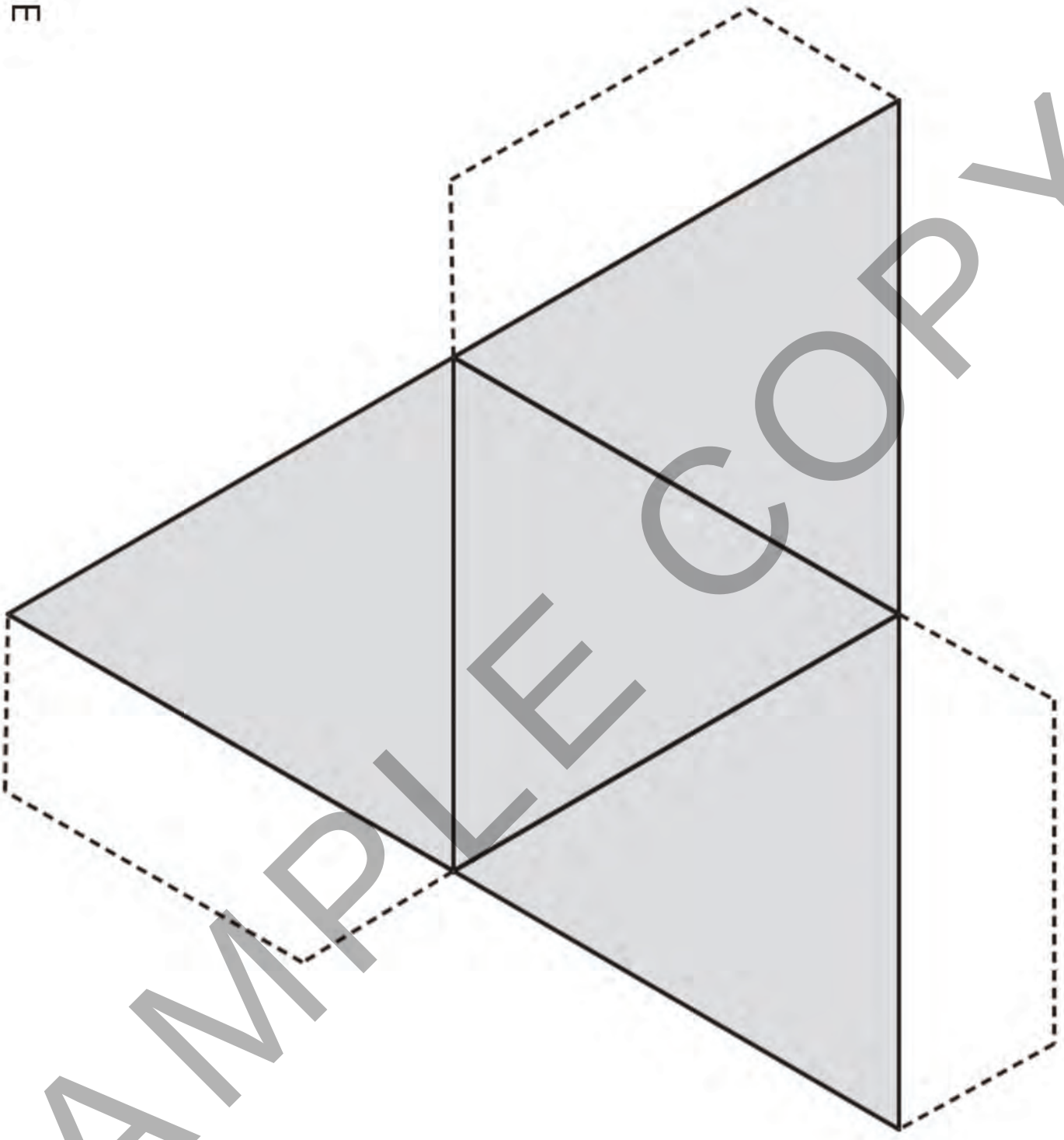

SAMPLE COPY

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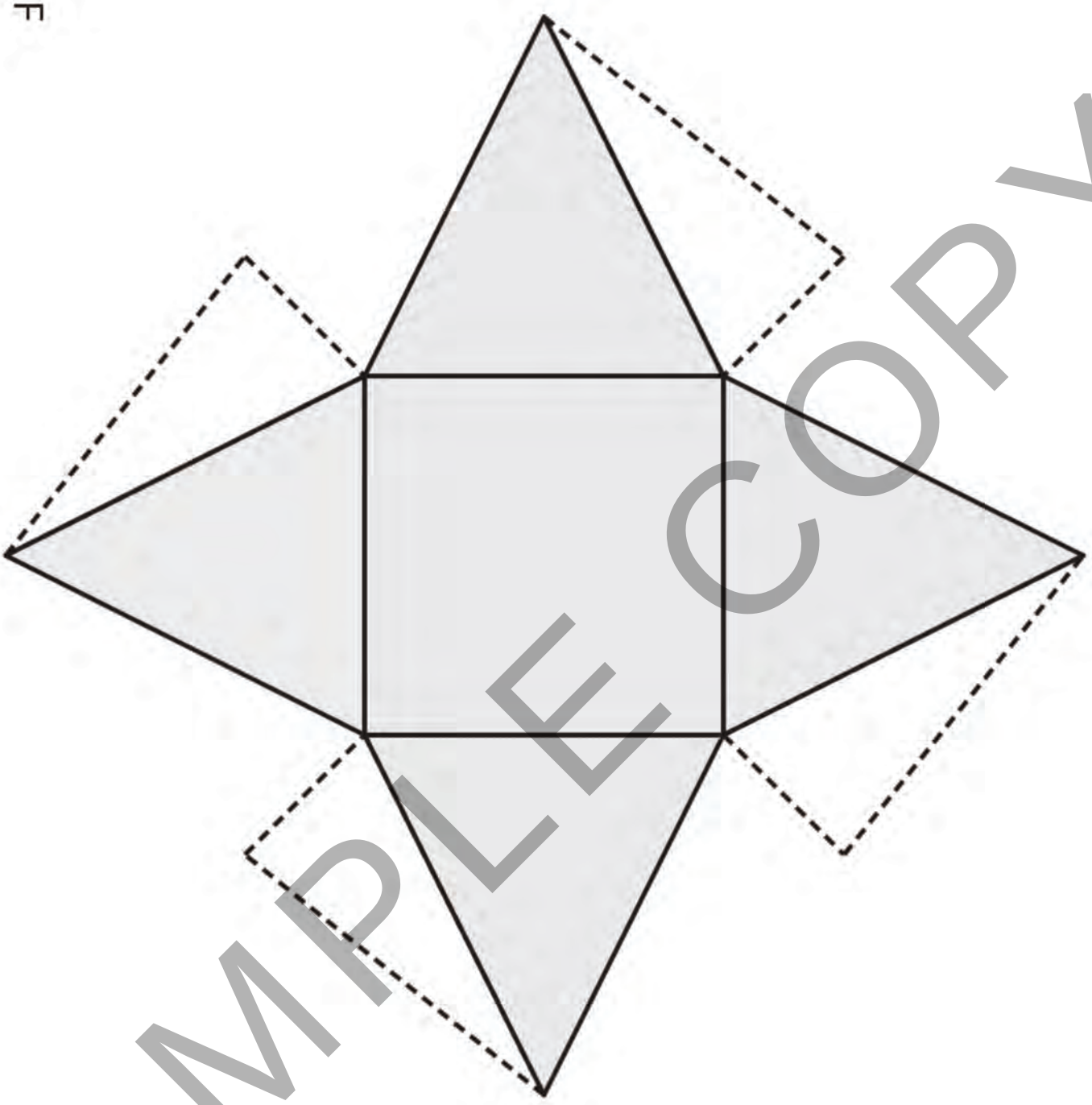

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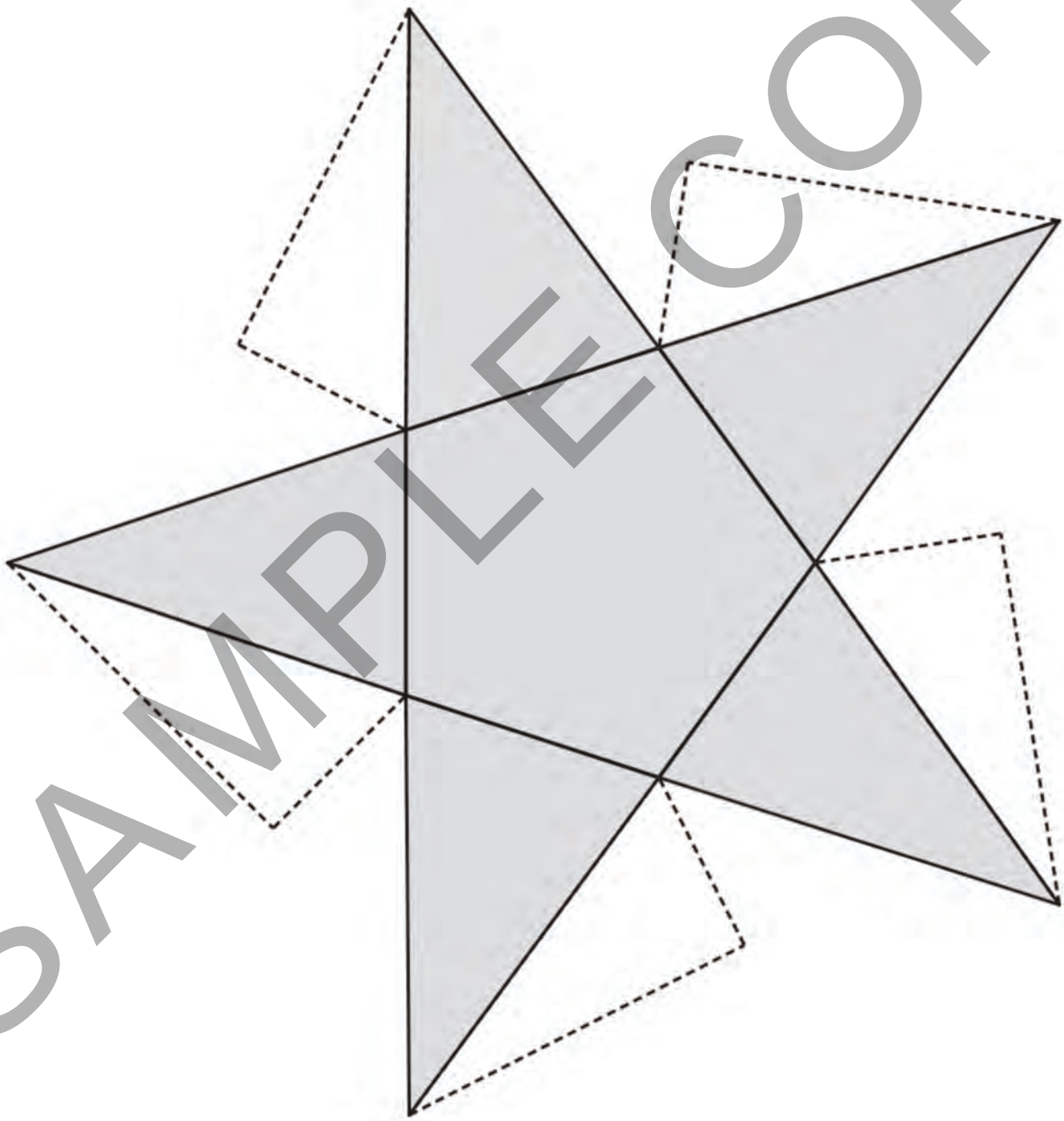

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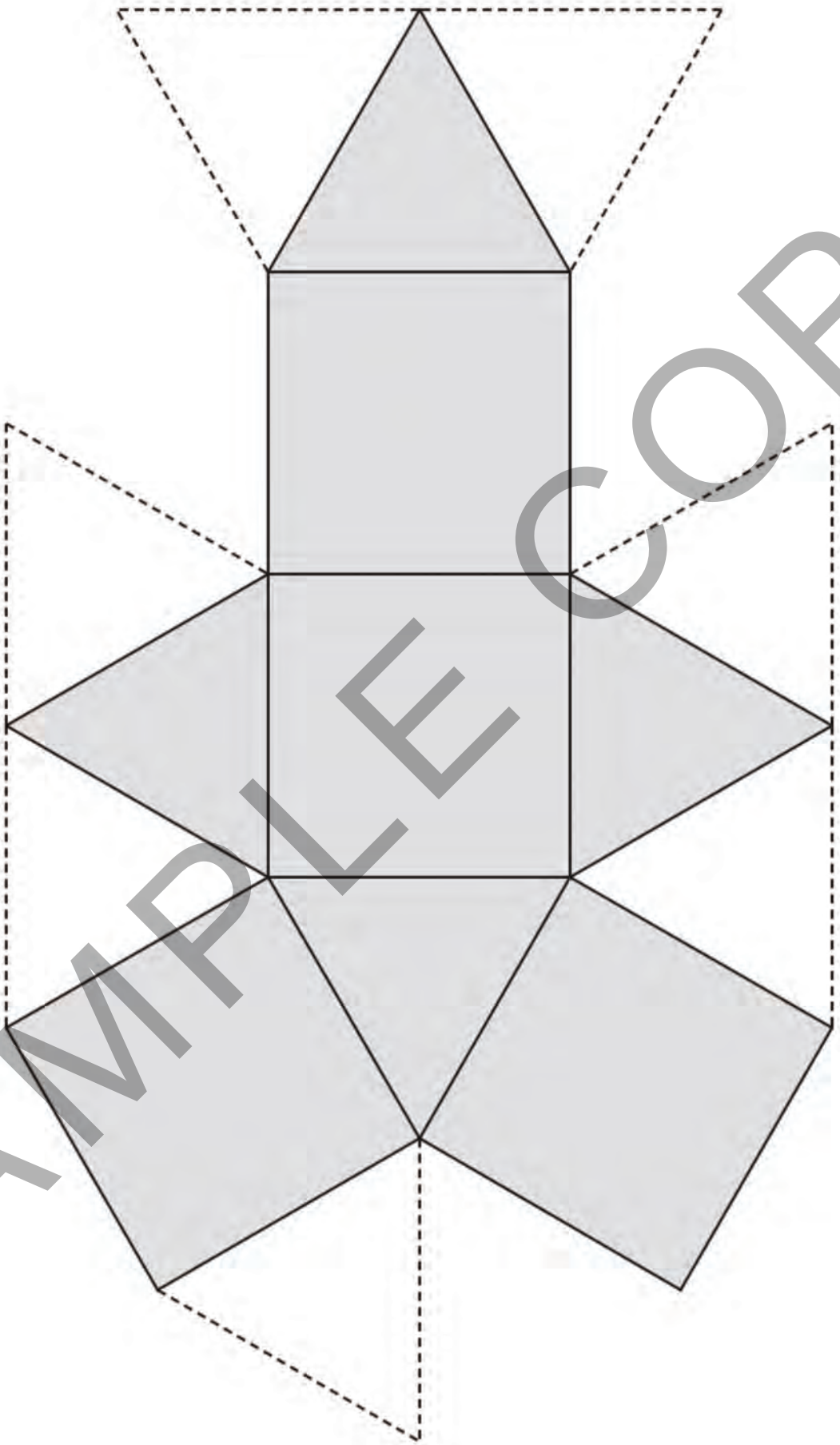

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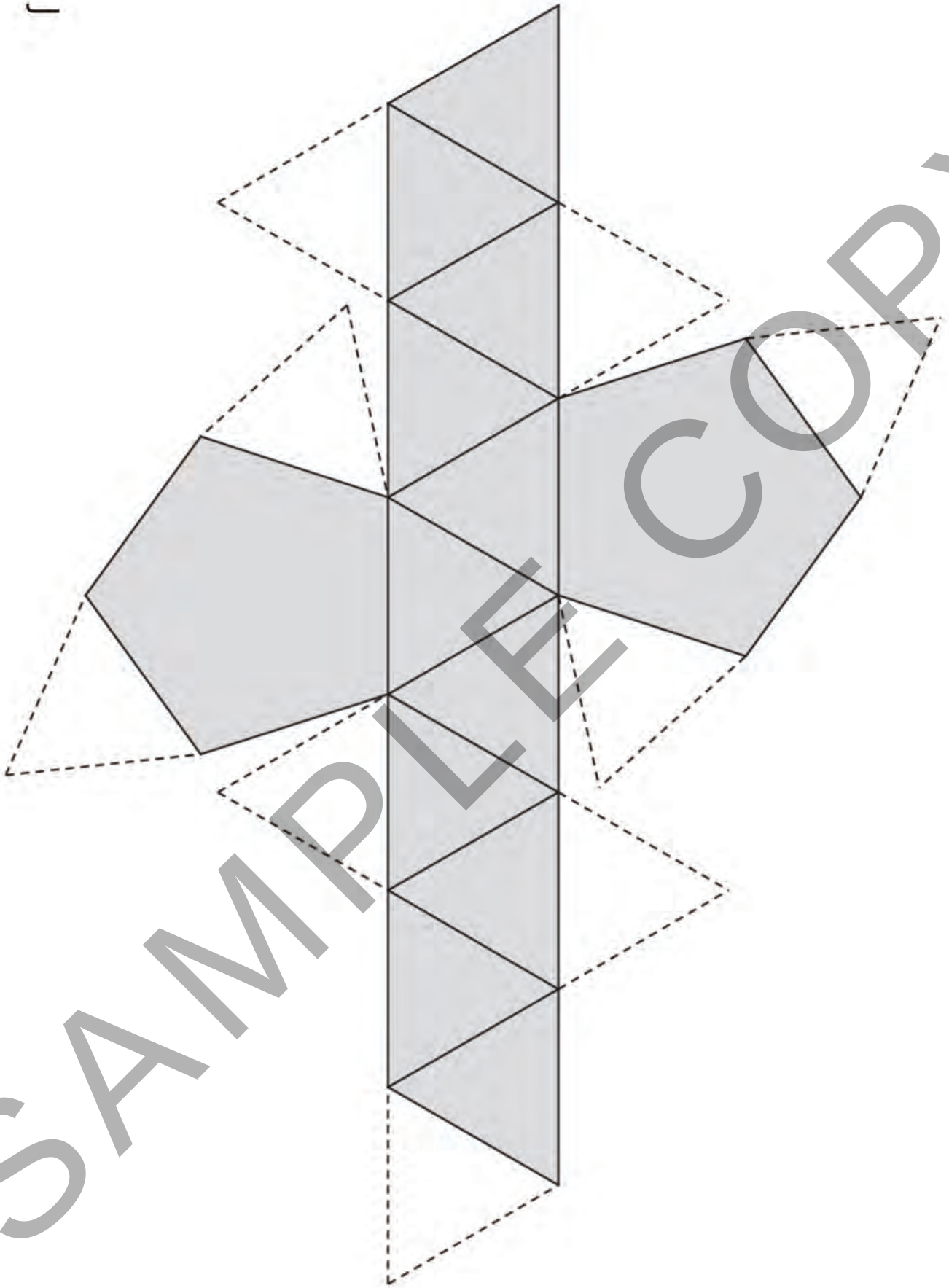

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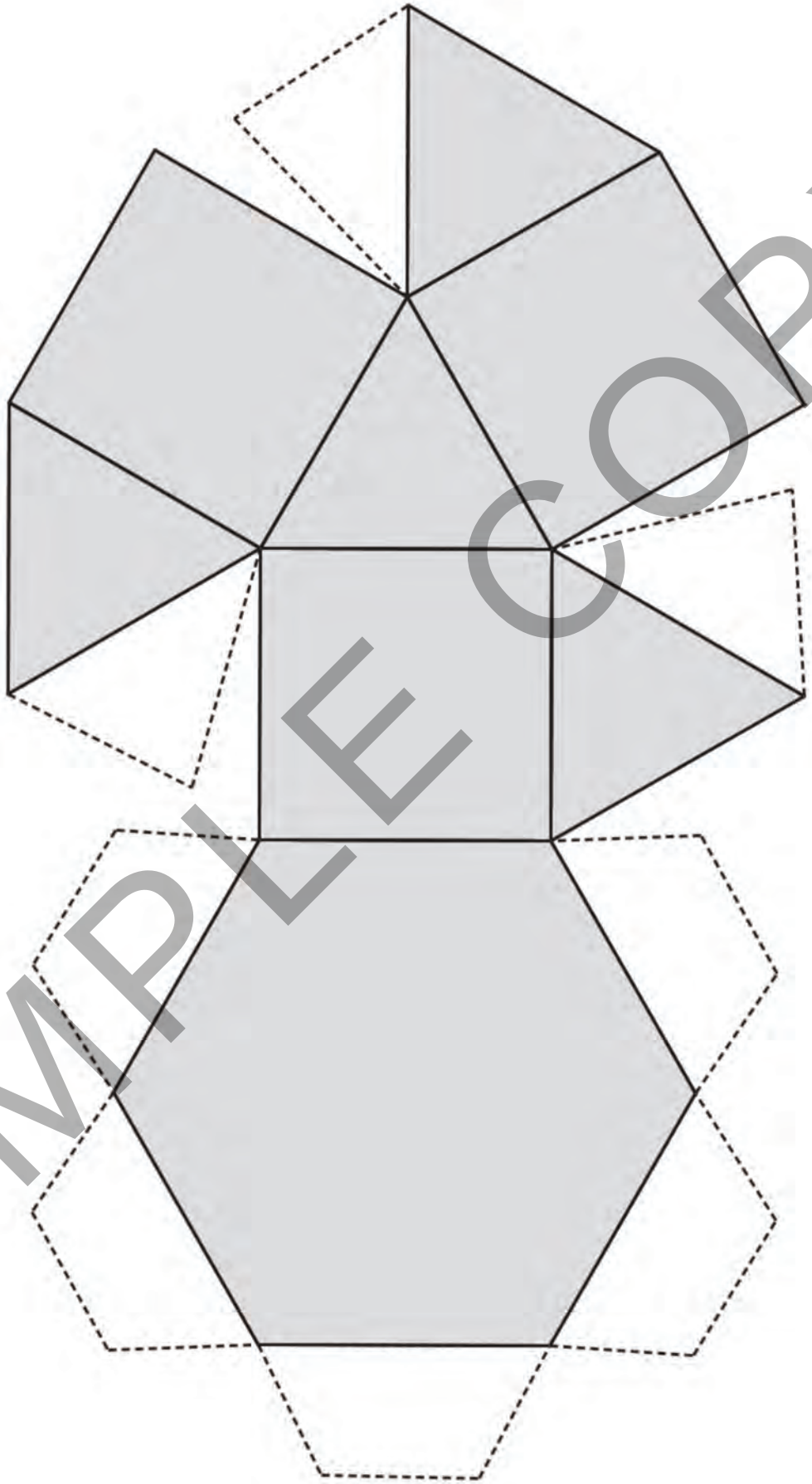

SAMPLE COPY

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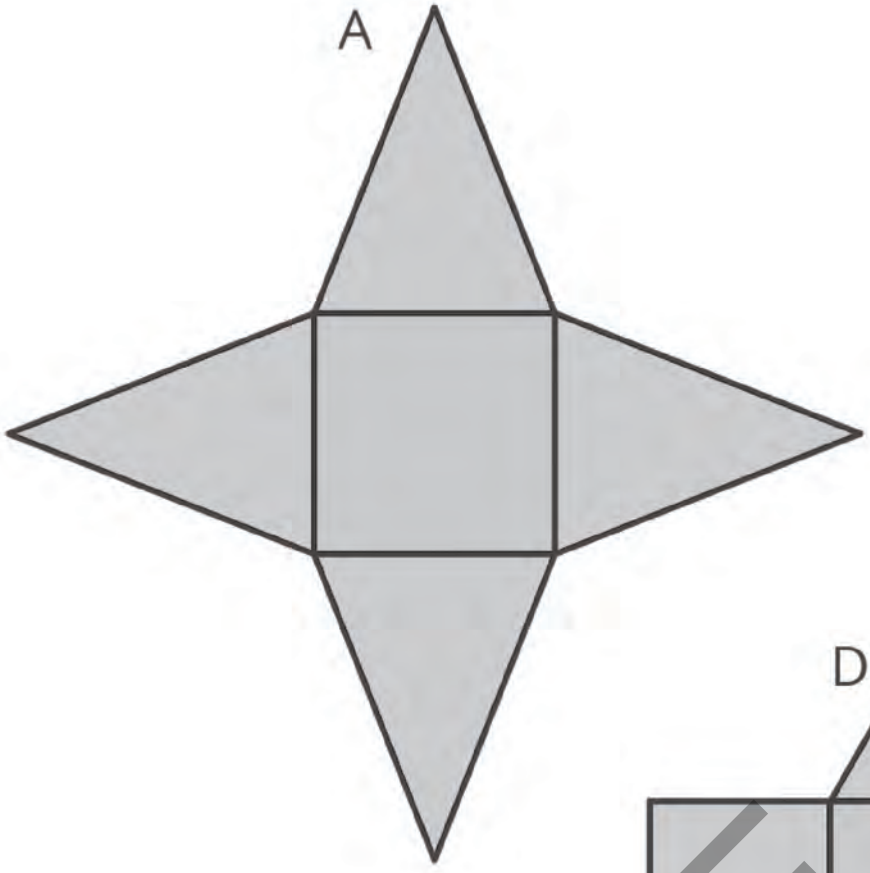

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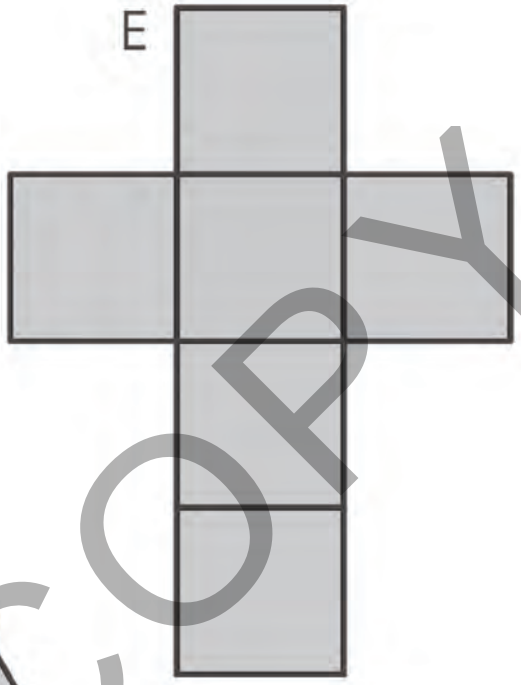

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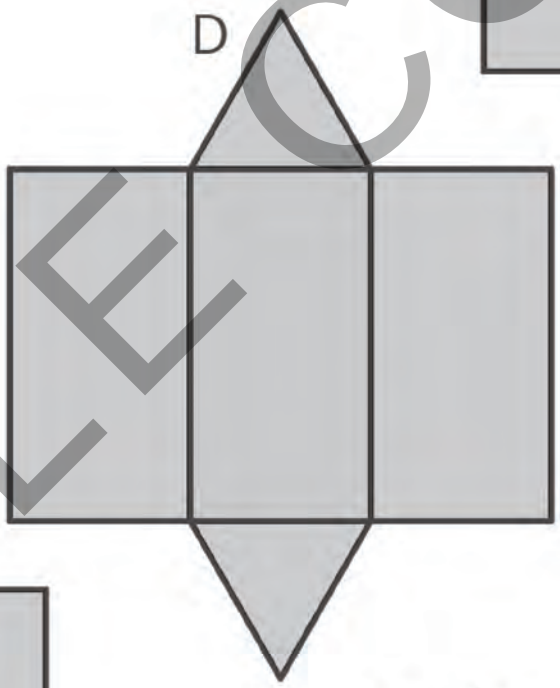

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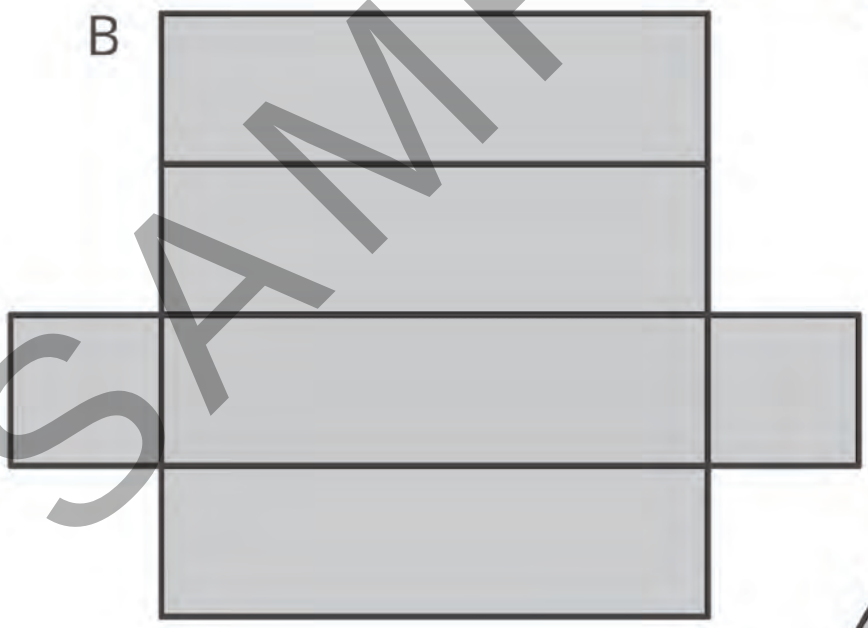

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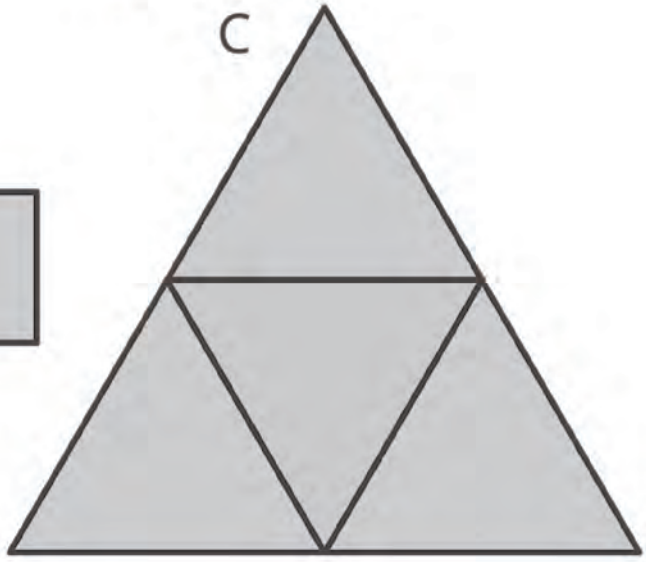

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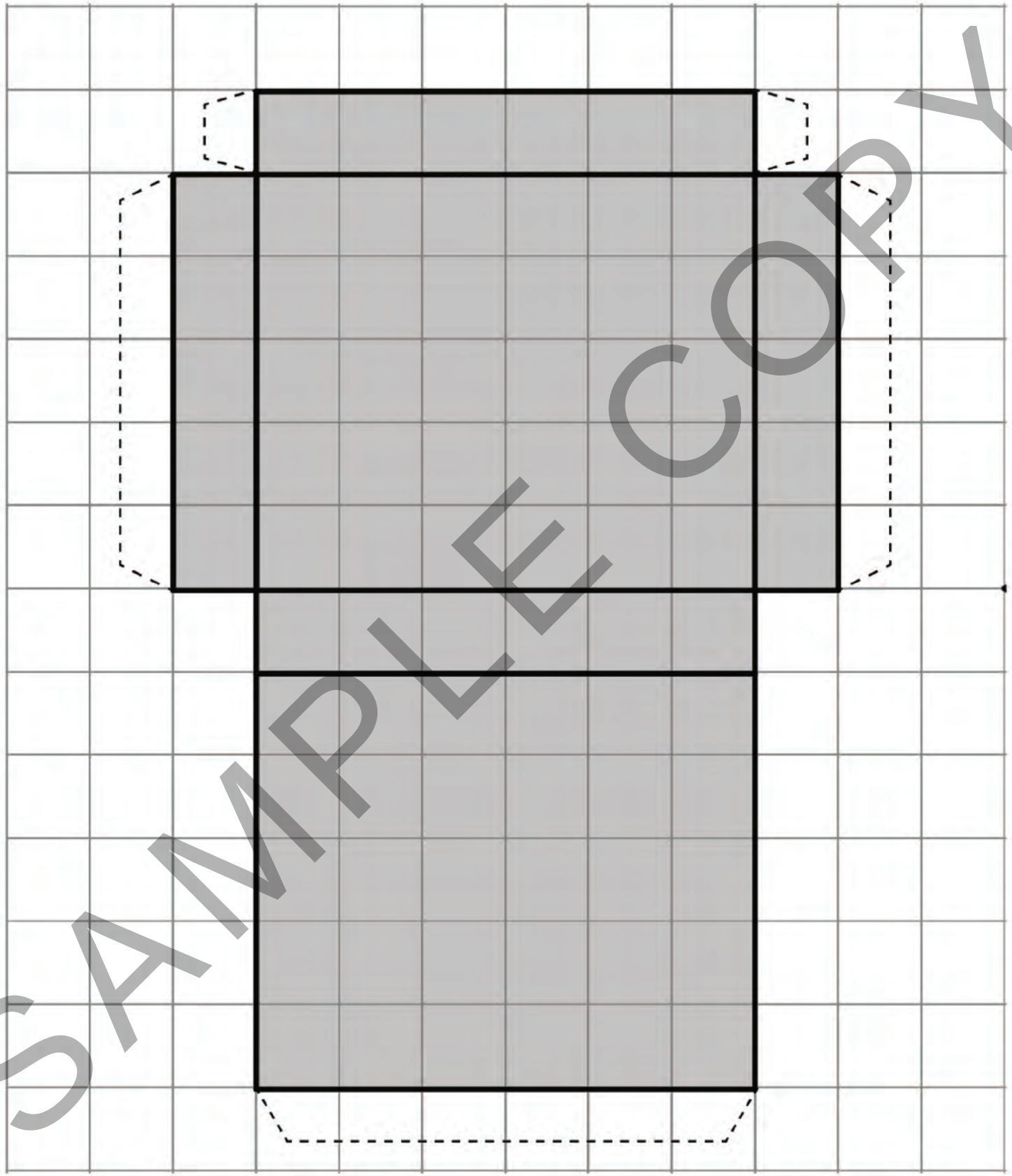

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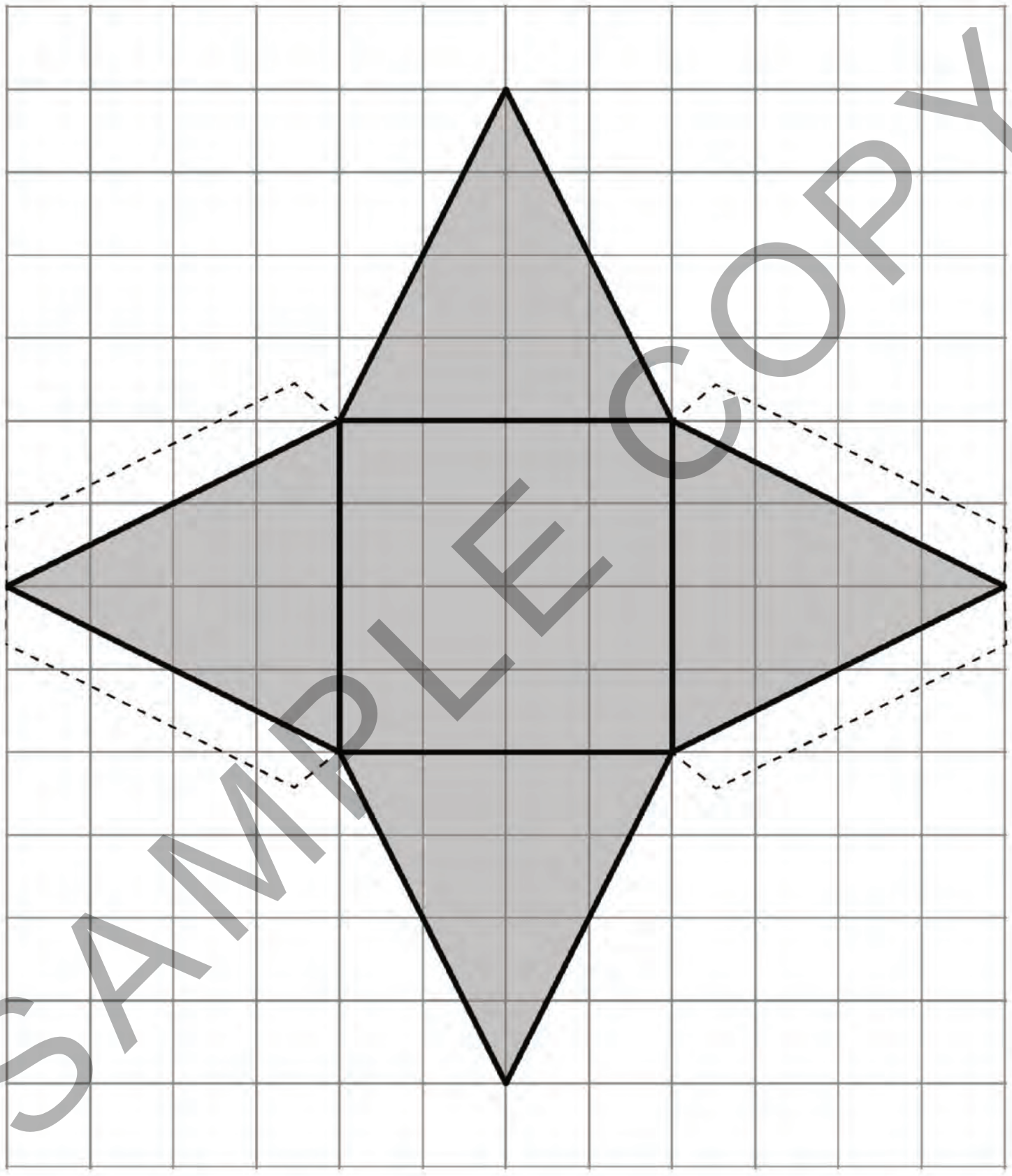

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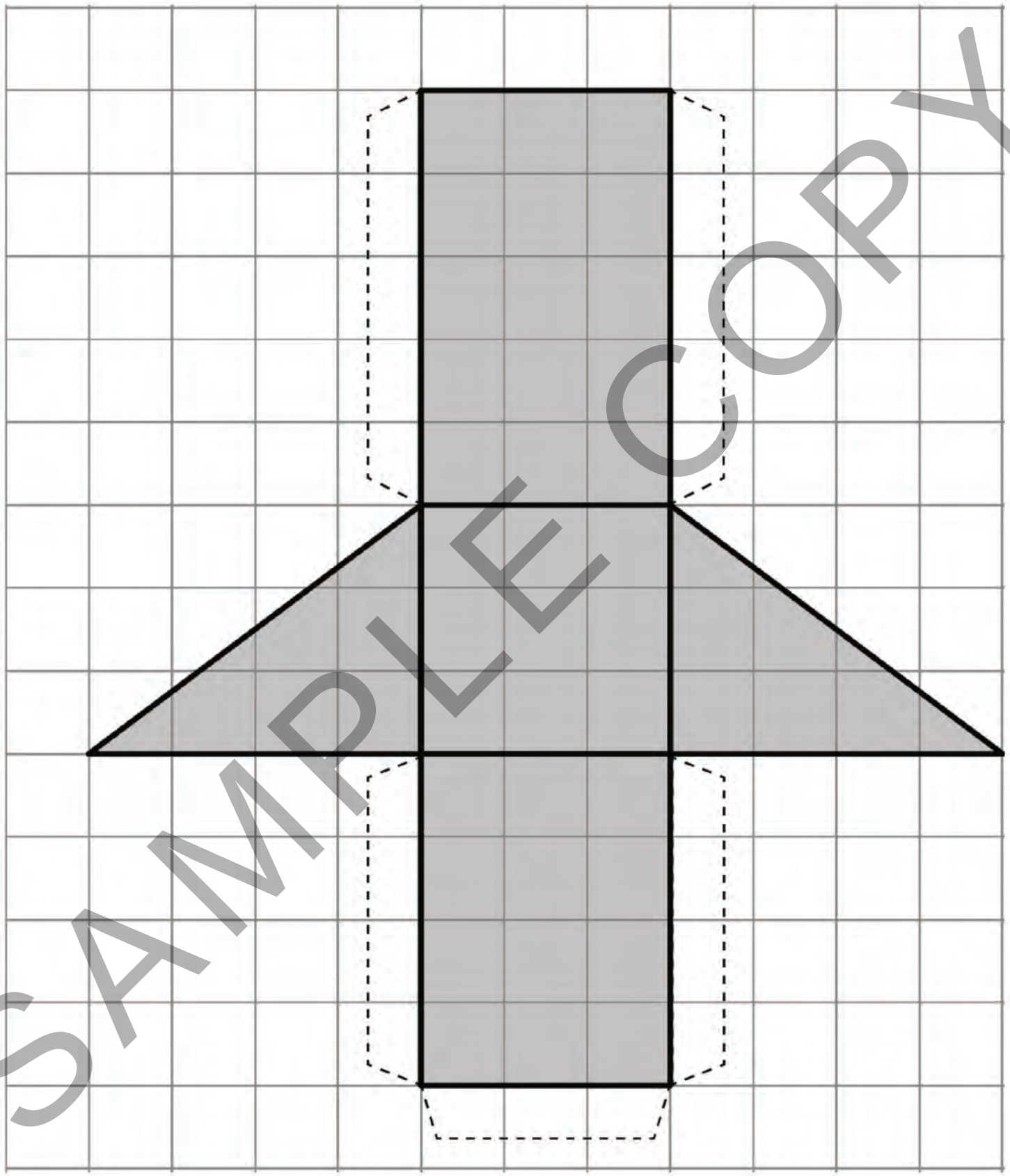
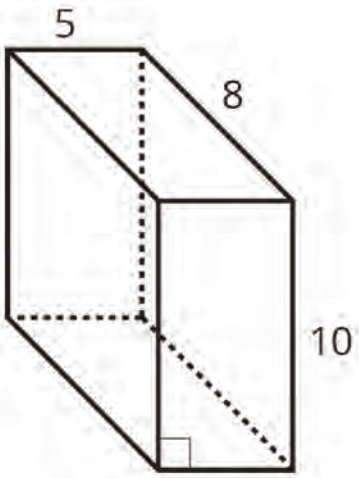


SAMPLE COPY

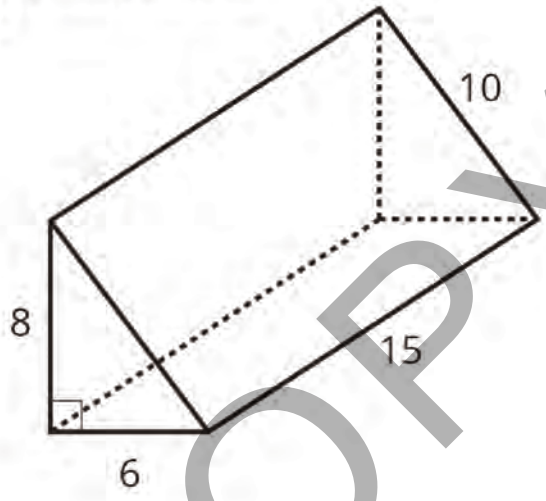
Building Prisms and Pyramids

A



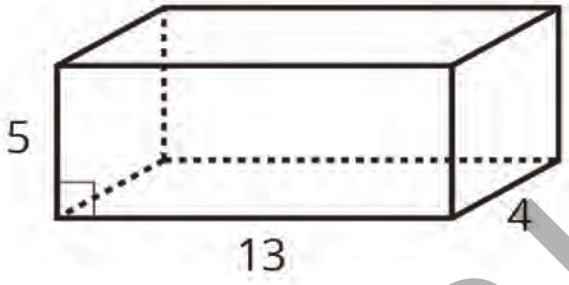
Building Prisms and Pyramids

B



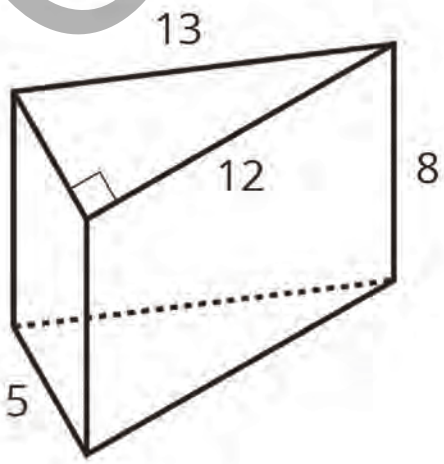
Building Prisms and Pyramids

C



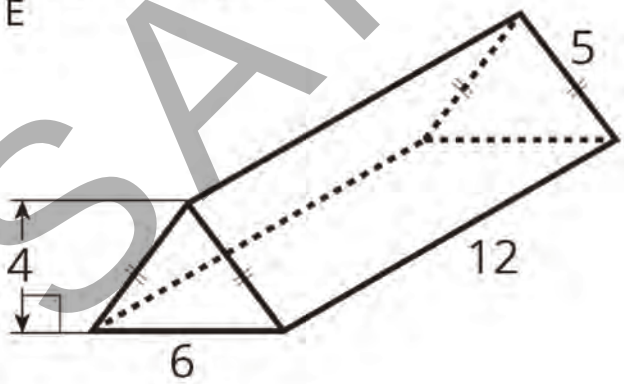
Building Prisms and Pyramids

D



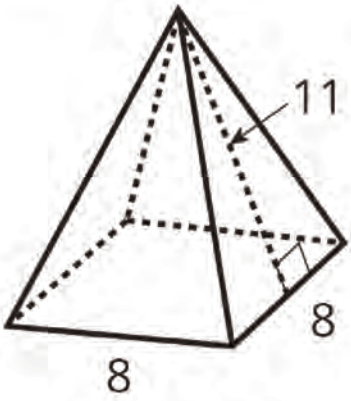
Building Prisms and Pyramids

E



Building Prisms and Pyramids

F



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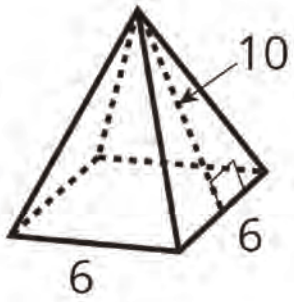
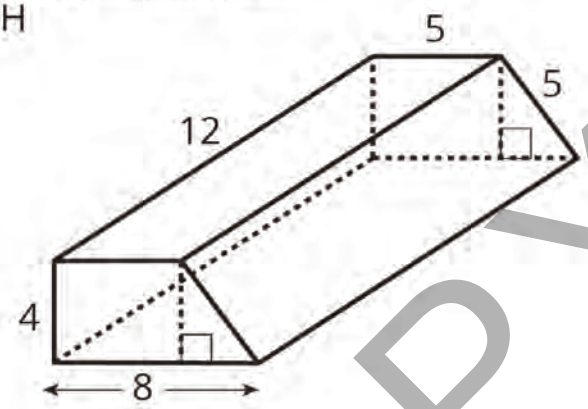
Building Prisms and Pyramids

G



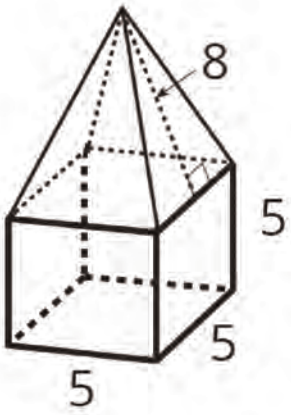
Building Prisms and Pyramids

H



Building Prisms and Pyramids

I



SAMPLE COPY

GRADE 6

UNIT

2

Teacher Resource Copy Masters

LESSON BLACKLINE MASTERS

SAMPLE COPY

address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade6.2.2.3	Pencil Cases Cards	1	no	yes	no	no	yes	no
Activity Grade6.2.13.3	The International Space Station Cards	4	yes	yes	no	no	no	no
Activity Grade6.2.14.2	Hot Chocolate and Potatoes Cards	4	no	yes	no	no	no	no
Activity Grade6.2.16.3	Cleaning Fluid and Moving Boxes Cards	4	no	yes	no	no	yes	no

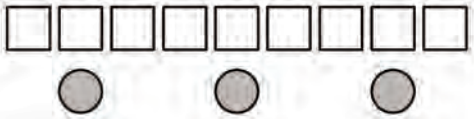
SAMPLE COPY

Card Sort: Pencil Cases
Diagram A

Card Sort: Pencil Cases
Sentence 4

There are 3 pencils for every eraser.

Card Sort: Pencil Cases
Diagram B



Card Sort: Pencil Cases
Sentence 2

There are 3 erasers for every pencil.

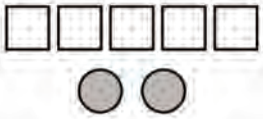
Card Sort: Pencil Cases

The above diagram also matches this sentence.

Card Sort: Pencil Cases
Sentence 8

The ratio of pencils to erasers is 1 : 3.

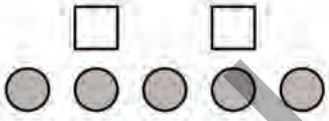
Card Sort: Pencil Cases
Diagram C



Card Sort: Pencil Cases
Sentence 1

The ratio of erasers to pencils is 5 to 2.

Card Sort: Pencil Cases
Diagram D



Card Sort: Pencil Cases
Sentence 5

The ratio of pencils to erasers is 5 to 2.

Card Sort: Pencil Cases
Diagram E

Card Sort: Pencil Cases
Sentence 3

For every eraser, there are 2 pencils and 5 paper clips.

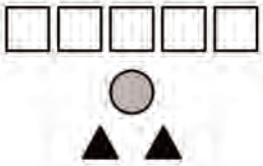
Card Sort: Pencil Cases

The above diagram also matches this sentence.

Card Sort: Pencil Cases
Sentence 7

Erasers, paper clips, and pencils are in the ratio 1 : 5 : 2.

Card Sort: Pencil Cases
Diagram F



Card Sort: Pencil Cases
Sentence 6

Pencils, erasers, and paper clips are in the ratio 1 : 5 : 2.

SAMPLE COPY

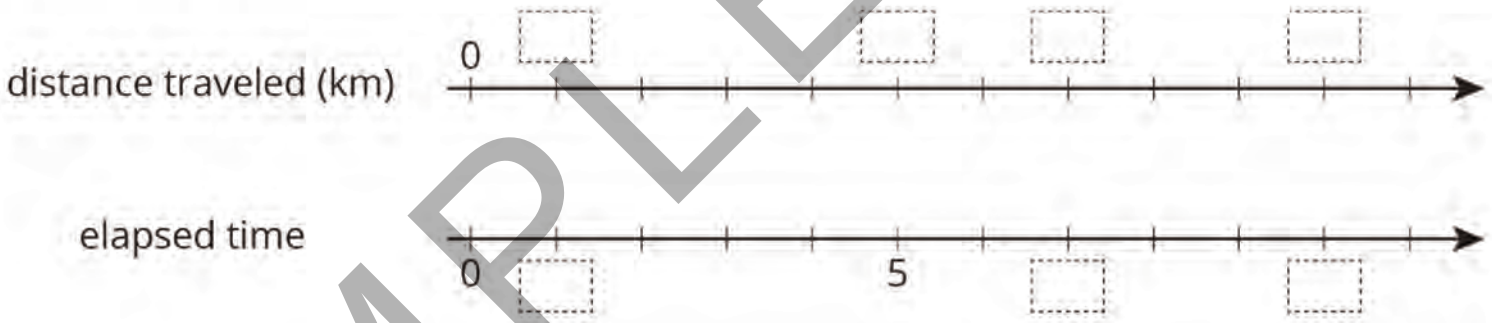
The International Space Station

distance traveled	elapsed time (seconds)
0	0
80	10
	1

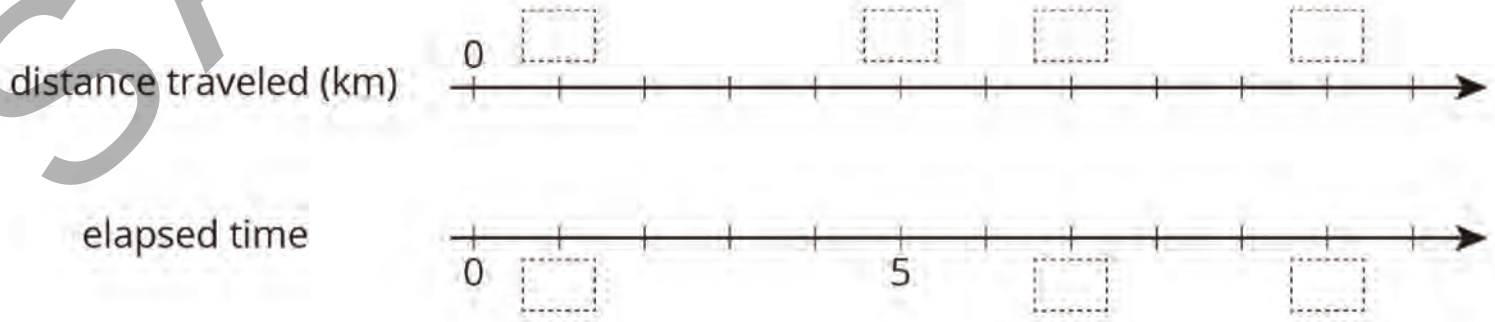
The International Space Station

distance traveled	elapsed time (seconds)
0	0
80	10
	1

The International Space Station



The International Space Station



SAMPLE COPY

Info Gap: Hot Chocolate and Potatoes

Problem Card 1

Jada mixes milk and cocoa powder to make hot chocolate. She wants to use all of the cocoa powder she has left. How much milk should Jada use?

Info Gap: Hot Chocolate and Potatoes

Data Card 1

- Jada's recipe calls for 3 cups of milk.
- Jada's recipe calls for 2 tablespoons of cocoa powder.
- Jada has 2 gallons of milk.
- Jada has 9 tablespoons of cocoa powder
- There are 16 cups in 1 gallon.

Info Gap: Hot Chocolate and Potatoes

Problem Card 2

Noah needs to peel a lot of potatoes before a large dinner. He has already peeled some potatoes. If Noah keeps peeling at the same rate, will he finish all the potatoes in time?

Info Gap: Hot Chocolate and Potatoes

Data Card 2

- Noah has already peeled 8 potatoes.
- Noah has been peeling for 10 minutes.
- Noah needs to peel 60 more potatoes.
- Noah needs to be finished peeling in 1 hour and 10 minutes.
- There are 60 minutes in 1 hour.

Info Gap: Hot Chocolate and Potatoes

Problem Card 1

Jada mixes milk and cocoa powder to make hot chocolate. She wants to use all of the cocoa powder she has left. How much milk should Jada use?

Info Gap: Hot Chocolate and Potatoes

Data Card 1

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- Jada's recipe calls for 2 tablespoons of cocoa powder.
- Jada has 2 gallons of milk.
- Jada has 9 tablespoons of cocoa powder
- There are 16 cups in 1 gallon.

Info Gap: Hot Chocolate and Potatoes

Problem Card 2

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Data Card 2

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- Noah has been peeling for 10 minutes.
- Noah needs to peel 60 more potatoes.
- Noah needs to be finished peeling in 1 hour and 10 minutes.
- There are 60 minutes in 1 hour.

SAMPLE COPY

Cleaning Fluid and Moving Boxes
Problem Card 1

A recipe for cleaning fluid uses water and vinegar. Clare made a certain amount of this cleaning fluid. How much water did she use?

Cleaning Fluid and Moving Boxes
Data Card 1

- The recipe says to use 4 parts water.
- The recipe says to use 3 parts vinegar.
- The ratio of water to vinegar is 4 : 3.
- The ratio of vinegar to water is 3 : 4.
- Clare made a total of 28 tablespoons of cleaning fluid.

Cleaning Fluid and Moving Boxes
Problem Card 2

Andre and Han are moving boxes, each working at a constant rate. How long will it take Andre and Han to move all the boxes?

Cleaning Fluid and Moving Boxes
Data Card 2

- Andre can move 4 boxes every half hour.
- Han can move 5 boxes every half hour.
- The ratio of boxes moved by Andre to boxes moved by Han is 4 : 5.
- The ratio of boxes moved by Han to boxes moved by Andre is 5 : 4.
- There are 72 boxes that need to be moved.

Cleaning Fluid and Moving Boxes
Problem Card 1

A recipe for cleaning fluid uses water and vinegar. Clare made a certain amount of this cleaning fluid. How much water did she use?

Cleaning Fluid and Moving Boxes
Data Card 1

- The recipe says to use 4 parts water.
- The recipe says to use 3 parts vinegar.
- The ratio of water to vinegar is 4 : 3.
- The ratio of vinegar to water is 3 : 4.
- Clare made a total of 28 tablespoons of cleaning fluid.

Cleaning Fluid and Moving Boxes
Problem Card 2

Andre and Han are moving boxes, each working at a constant rate. How long will it take Andre and Han to move all the boxes?

Cleaning Fluid and Moving Boxes
Data Card 2

- Andre can move 4 boxes every half hour.
- Han can move 5 boxes every half hour.
- The ratio of boxes moved by Andre to boxes moved by Han is 4 : 5.
- The ratio of boxes moved by Han to boxes moved by Andre is 5 : 4.
- There are 72 boxes that need to be moved.

SAMPLE COPY

GRADE 6

UNIT

3

Teacher Resource Copy Masters

LESSON BLACKLINE MASTERS

SAMPLE COPY

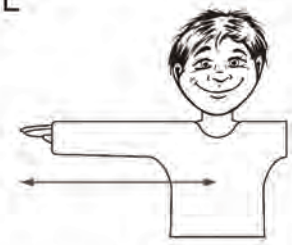
address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade6.3.1.4	Measurement Benchmarks Cards	4	no	yes	no	yes	no	no
Activity Grade6.3.2.2	Measurement Stations Cutout	30	yes	yes	yes	yes	no	no
Activity Grade6.3.7.2	Is It a Deal Cards	2	no	yes	no	no	yes	no
Activity Grade6.3.14.2	Music Devices Cards	2	no	yes	no	no	no	no

SAMPLE COPY

Measurement Benchmarks
L

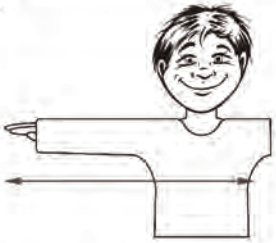
length of a thumb

Measurement Benchmarks
L



length from chest to fingers

Measurement Benchmarks
L



length from fingers to opposite armpit

Measurement Benchmarks
L

width of a pinky finger

Measurement Benchmarks
L

distance walked in 10 minutes

Measurement Benchmarks
L

length of a ruler

Measurement Benchmarks
L

length of a shoe

Measurement Benchmarks
L

distance run in 10 minutes

Measurement Benchmarks
L

length of a quarter

Measurement Benchmarks
L

length of a license plate

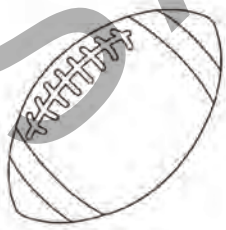
Measurement Benchmarks
L

thickness of a dime

Measurement Benchmarks
L

length of a baseball bat and ball

Measurement Benchmarks
L



length of a football

Measurement Benchmarks
L

thickness of a hockey puck

Measurement Benchmarks
L

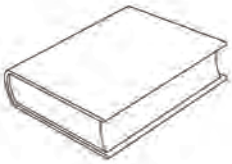
length of a baseball bat

Measurement Benchmarks
L

width of the head of a golf tee

SAMPLE COPY

Measurement Benchmarks
WM

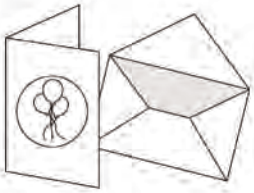


textbook

Measurement Benchmarks
WM

small car

Measurement Benchmarks
WM



birthday card

Measurement Benchmarks
WM

paper clip

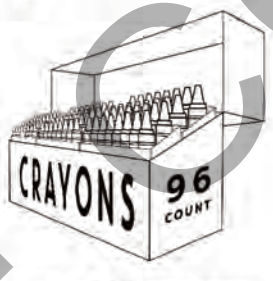
Measurement Benchmarks
WM

hooded sweatshirt

Measurement Benchmarks
WM

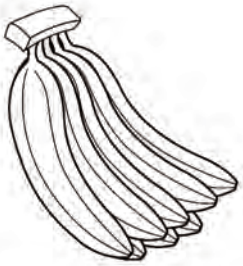
dollar bill

Measurement Benchmarks
WM



box of 96 crayons

Measurement Benchmarks
WM



bunch of bananas

Measurement Benchmarks
WM

2 raisins

Measurement Benchmarks
WM

slice of bread

Measurement Benchmarks
WM

loaf of bread

Measurement Benchmarks
WM

jar of peanut butter

Measurement Benchmarks
WM

draft horse

Measurement Benchmarks
WM

crow

Measurement Benchmarks
WM

mouse

Measurement Benchmarks
WM

guinea pig

SAMPLE COPY

Measurement Benchmarks
V

school milk carton

Measurement Benchmarks
V

packet of artificial sweetener

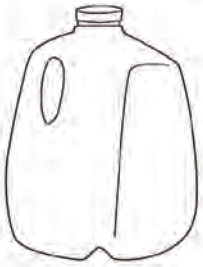
Measurement Benchmarks
V

large paint can

Measurement Benchmarks
V

small paint can

Measurement Benchmarks
V



large milk jug

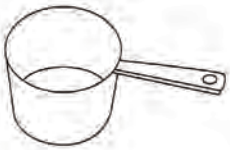
Measurement Benchmarks
V

reusable water bottle

Measurement Benchmarks
V

large bottle of sports drink

Measurement Benchmarks
V



measuring cup

Measurement Benchmarks
V

half of a large soda bottle

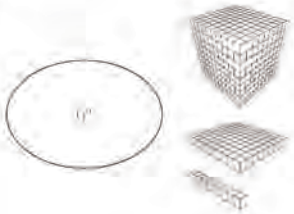
Measurement Benchmarks
V

eyedropper

Measurement Benchmarks
V

1000s cube

Measurement Benchmarks
V



1s cube

SAMPLE COPY

Units of Length

1 millimeter	1 centimeter
1 inch	1 foot

SAMPLE COPY

Units of Length

1 yard	1 meter
1 kilometer	1 mile

SAMPLE COPY

Units of Volume

1 cup	1 quart	1 gallon

1 milliliter	1 liter

SAMPLE COPY

Units of Weight or Mass

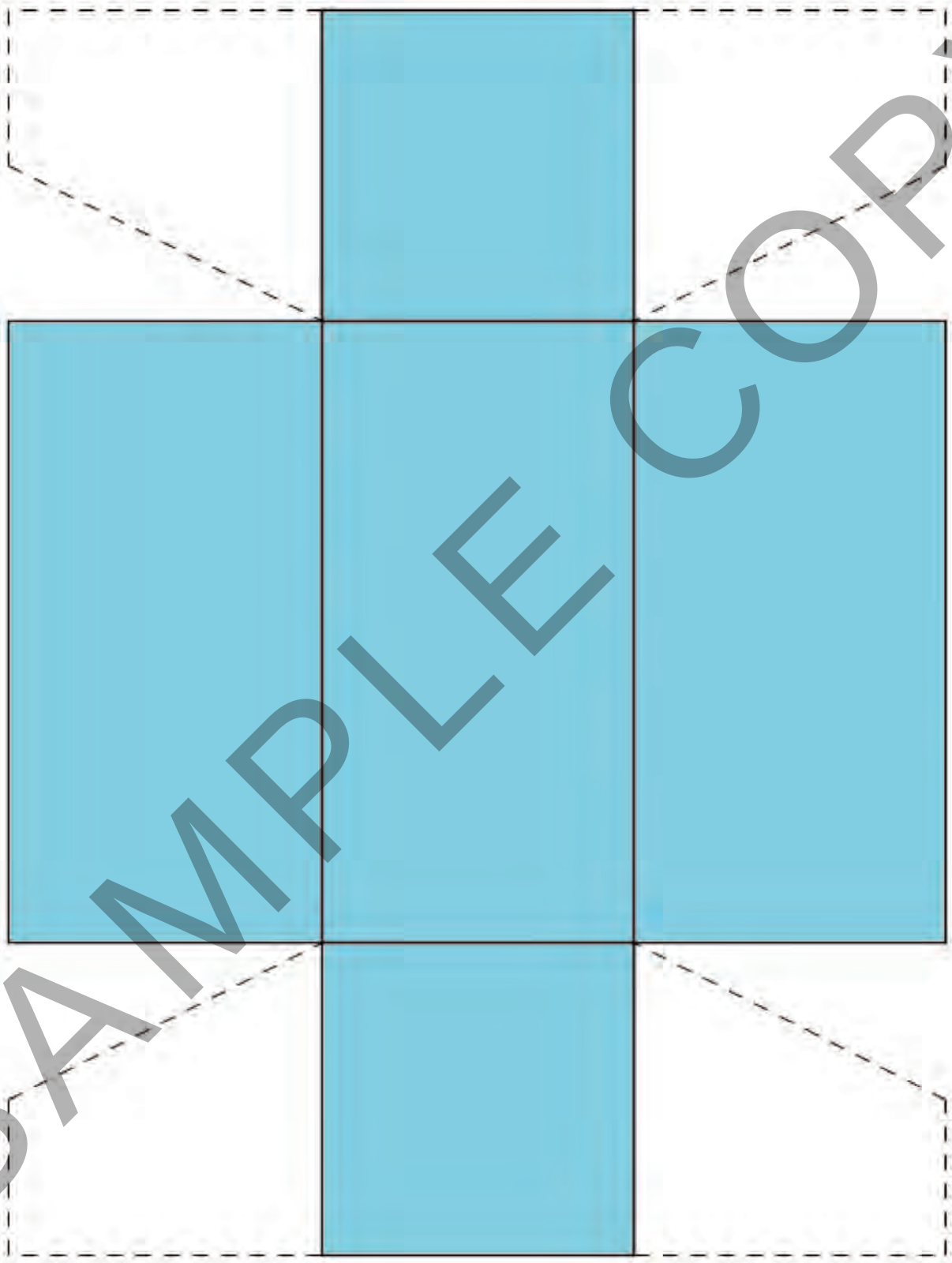
1 ounce	1 pound	1 ton

1 gram	1 kilogram

SAMPLE COPY

The entire net should be **slightly larger than** 6 inches by 8 inches when printed, before assembly.

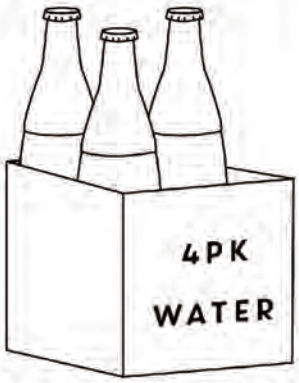
It is best to copy this net onto **card stock** before cutting it out **and gluing** it.



SAMPLE COPY

Card Sort: Is it a Deal?

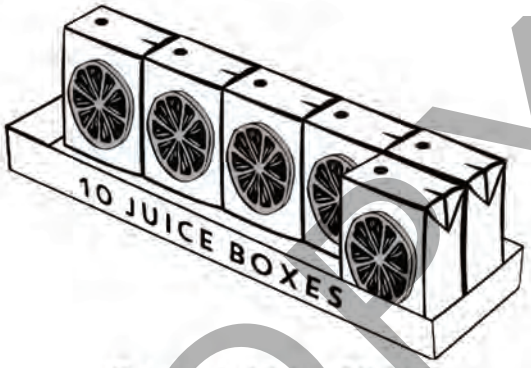
A. Drink Pack



Original: 4 for $3.16
New Deal: 3 for $2.25

Card Sort: Is it a Deal?

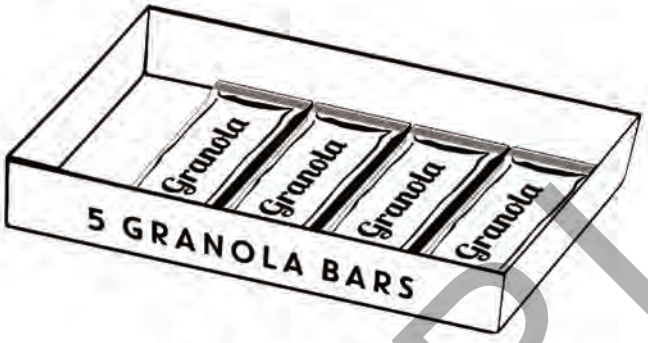
B. Juice Boxes



Original: 10 for $3.50
New Deal: 6 for $2.40

Card Sort: Is it a Deal?

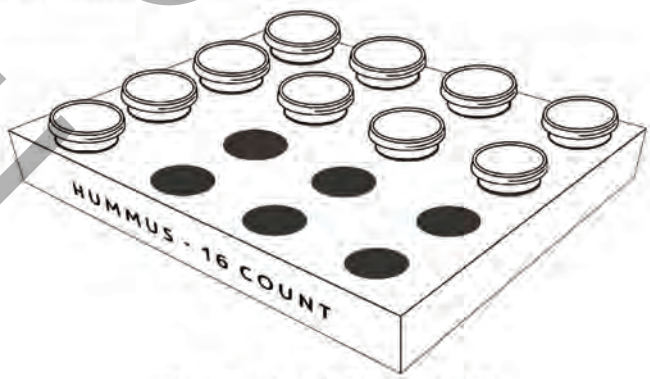
C. Granola Bars



Original: 5 for $4.40
New Deal: 4 for $3.12

Card Sort: Is it a Deal?

D. Hummus



Original: 16 for $12.00
New Deal: 10 for $9.00

Card Sort: Is it a Deal?

E. Yogurt

Original: 8 for $6.80
New Deal: 6 for $5.22

Card Sort: Is it a Deal?

F. Fruit Snacks

Original: 12 for $9.12
New Deal: 9 for _____

SAMPLE COPY

This page includes an additional set of info gap cards to use as an optional demonstration.

Cards for the student activity are located on the following page.

Info Gap: Music Devices
Problem Card 0

Tyler has saved almost enough money to buy a pair of headphones.

How much money has he saved?

Info Gap: Music Devices
Data Card 0

- The headphones that Tyler wants to buy cost $41.
- Tyler has saved 90% of the cost of the headphones.
- Tyler still needs to save 10% of the cost of the headphones.

Info Gap: Music Devices
Problem Card 0

Tyler has saved almost enough money to buy a pair of headphones.

How much money has he saved?

Info Gap: Music Devices
Data Card 0

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Info Gap: Music Devices
Problem Card 0

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Info Gap: Music Devices
Data Card 0

- The headphones that Tyler wants to buy cost $41.
- Tyler has saved 90% of the cost of the headphones.
- Tyler still needs to save 10% of the cost of the headphones.

SAMPLE COPY

Info Gap: Music Devices

Problem Card 1

A store sells 3 different music devices: Device A, Device B, and Device C.

1. Which of the devices can Jada afford?
2. What percentage of the money needed for Device B does she have?

Info Gap: Music Devices

Data Card 1

- Device A costs $15.
- Device B costs $25.
- Device C costs $40.
- Jada has 60% of the money needed to buy Device C.

Info Gap: Music Devices

Problem Card 2

The store starts selling another music device. Priya is interested in Device D, though she does not have enough money to buy it.

How much does Device D cost?

Info Gap: Music Devices

Data Card 2

- Priya has $24.
- Priya has 40% of the money needed to buy Device D.

Info Gap: Music Devices

Problem Card 1

A store sells 3 different music devices: Device A, Device B, and Device C.

1. Which of the devices can Jada afford?
2. What percentage of the money needed for Device B does she have?

Info Gap: Music Devices

Data Card 1

- Device A costs $15.
- Device B costs $25.
- Device C costs $40.
- Jada has 60% of the money needed to buy Device C.

Info Gap: Music Devices

Problem Card 2

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Info Gap: Music Devices

Data Card 2

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