IMKH California

GRADE 6

Teacher Resource Copy Masters

UNITS 4-6

Illustrative Mathematics LEARN MATH FOR LIFE | Kendall Hunt

Book 2

Certified by Illustrative Mathematics®

ISBN 979-8-3851-7606-9

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20240302

GRADE 6

UNIT

4

Teacher Resource Copy Masters

LESSON BLACKLINE MASTERS

address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade6.4.1.3	All in Order Cards	3	no	yes	no	yes	yes	no
Activity Grade6.4.12.2	How Many Would It Take Cards	4	no	yes	no	no	no	no
CoolDown Grade6.4.5	Fraction Strips Handout	3	yes	yes	no	no	no	no

All in Order - Set 1 $800 \div 10{,}000$	All in Order - Set 1 $800 \div 10{,}000$	All in Order - Set 1 $800 \div 10{,}000$
All in Order - Set 1 $800 \div 801$	All in Order - Set 1 $800 \div 801$	All in Order - Set 1 $800 \div 801$
All in Order - Set 1 $800 \div 1{,}250$	All in Order - Set 1 $800 \div 1{,}250$	All in Order - Set 1 $800 \div 1{,}250$
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All in Order - Set 1 $800 \div 250$	All in Order - Set 1 $800 \div 250$	All in Order - Set 1 $800 \div 250$
All in Order - Set 1 $800 \div 2.5$	All in Order - Set 1 $800 \div 2.5$	All in Order - Set 1 $800 \div 2.5$
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All in Order - Set 2 75 ÷ 25	All in Order - Set 2 75 ÷ 25	All in Order - Set 2 75 ÷ 25
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All in Order - Set 2 0.0625 ÷ 25	All in Order - Set 2 0.0625 ÷ 25	All in Order - Set 2 0.0625 ÷ 25
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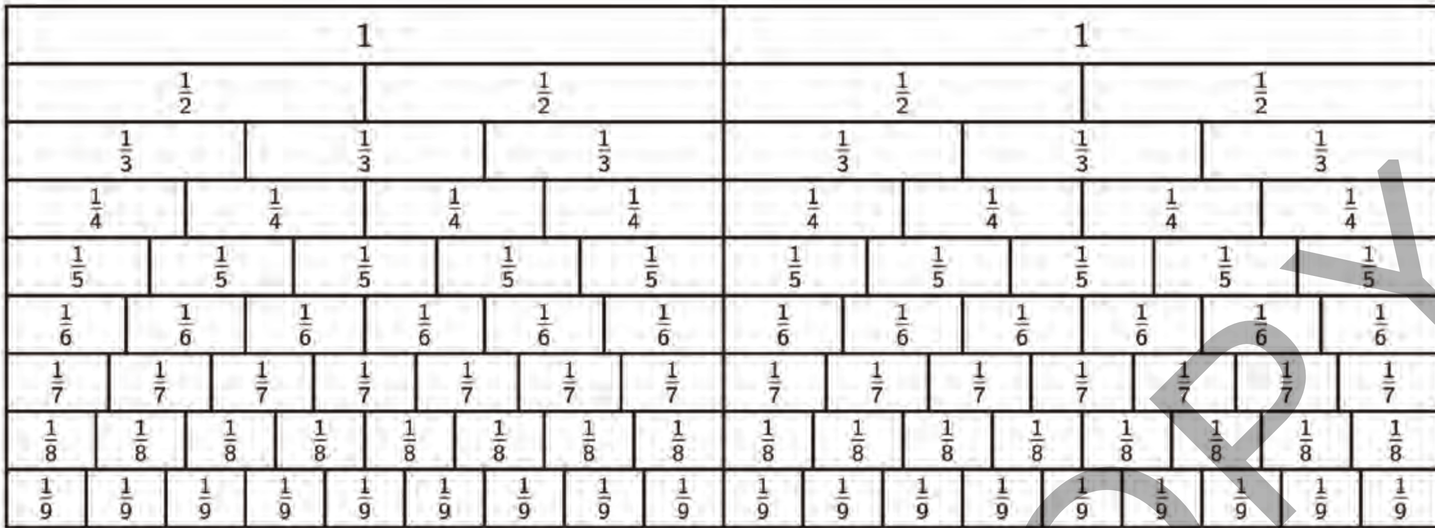
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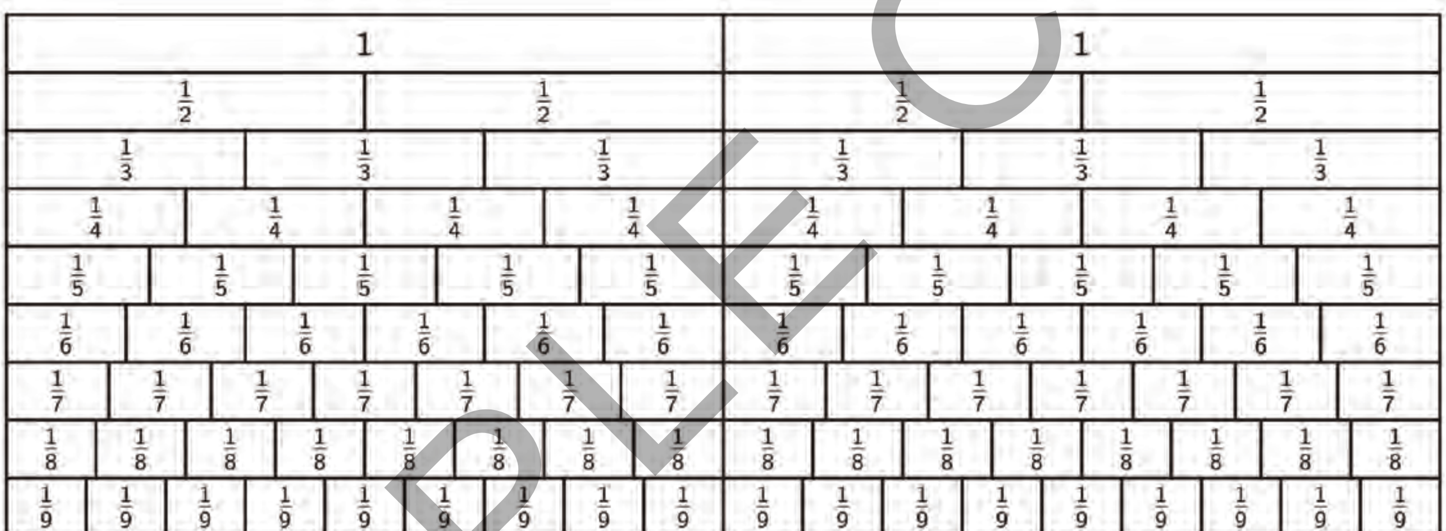
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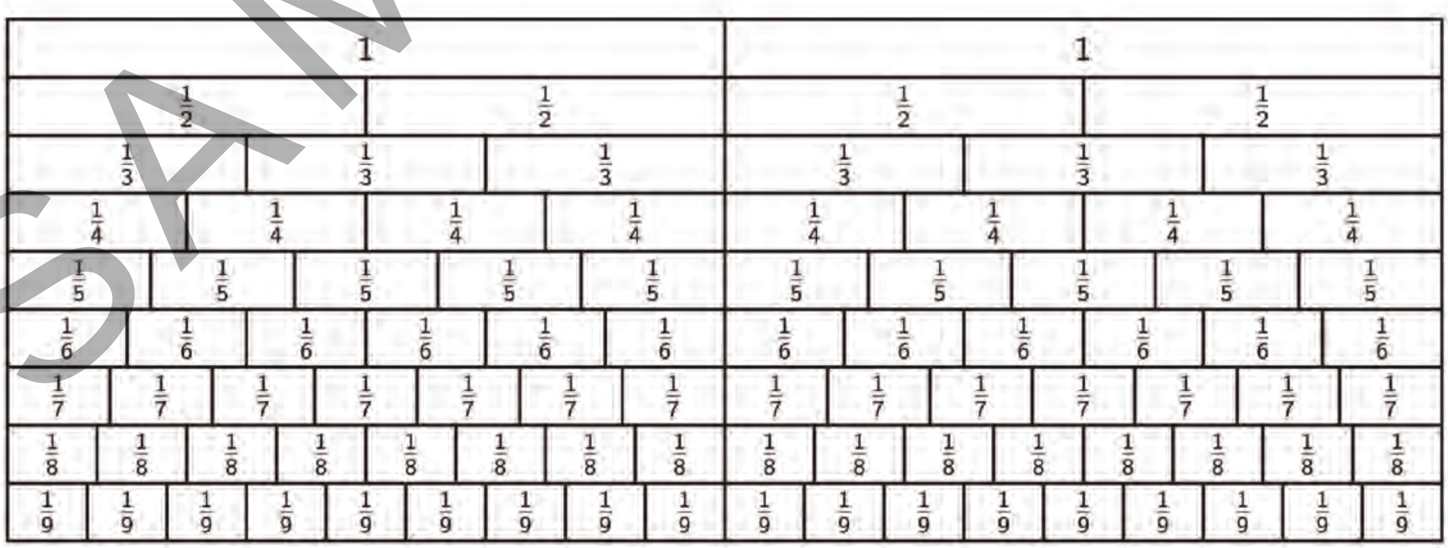
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1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9 1/9

Info Gap: How Many Would It Take?

Problem Card 1

Jada is using square stickers to decorate the spine of a photo album. If she places the stickers in a line, side by side without gaps or overlaps, how many stickers will it take?

Info Gap: How Many Would It Take?

Data Card 1

- The photo album is $8\frac{1}{4}$ inches wide by $10\frac{1}{2}$ inches tall by $1\frac{1}{2}$ inches thick.
- The photo album's spine is $10\frac{1}{2}$ inches long.
- The side length of the stickers is $\frac{3}{4}$ inch.
- Jada places the stickers in one straight line along the length of the spine.

Info Gap: How Many Would It Take?

Problem Card 2

Tyler is using binder clips to decorate the edges of a poster. If he places the binder clips in a line, side by side without gaps or overlaps, how many binder clips will it take?

Info Gap: How Many Would It Take?

Data Card 2

- The poster is 16 inches wide by 20 inches tall.
- The binder clips are $1\frac{1}{4}$ inches wide.
- Tyler places the binder clips in two straight lines, one along the left side of the poster and one along the right side.

Info Gap: How Many Would It Take?

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Info Gap: How Many Would It Take?

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Info Gap: How Many Would It Take?

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GRADE 6

UNIT

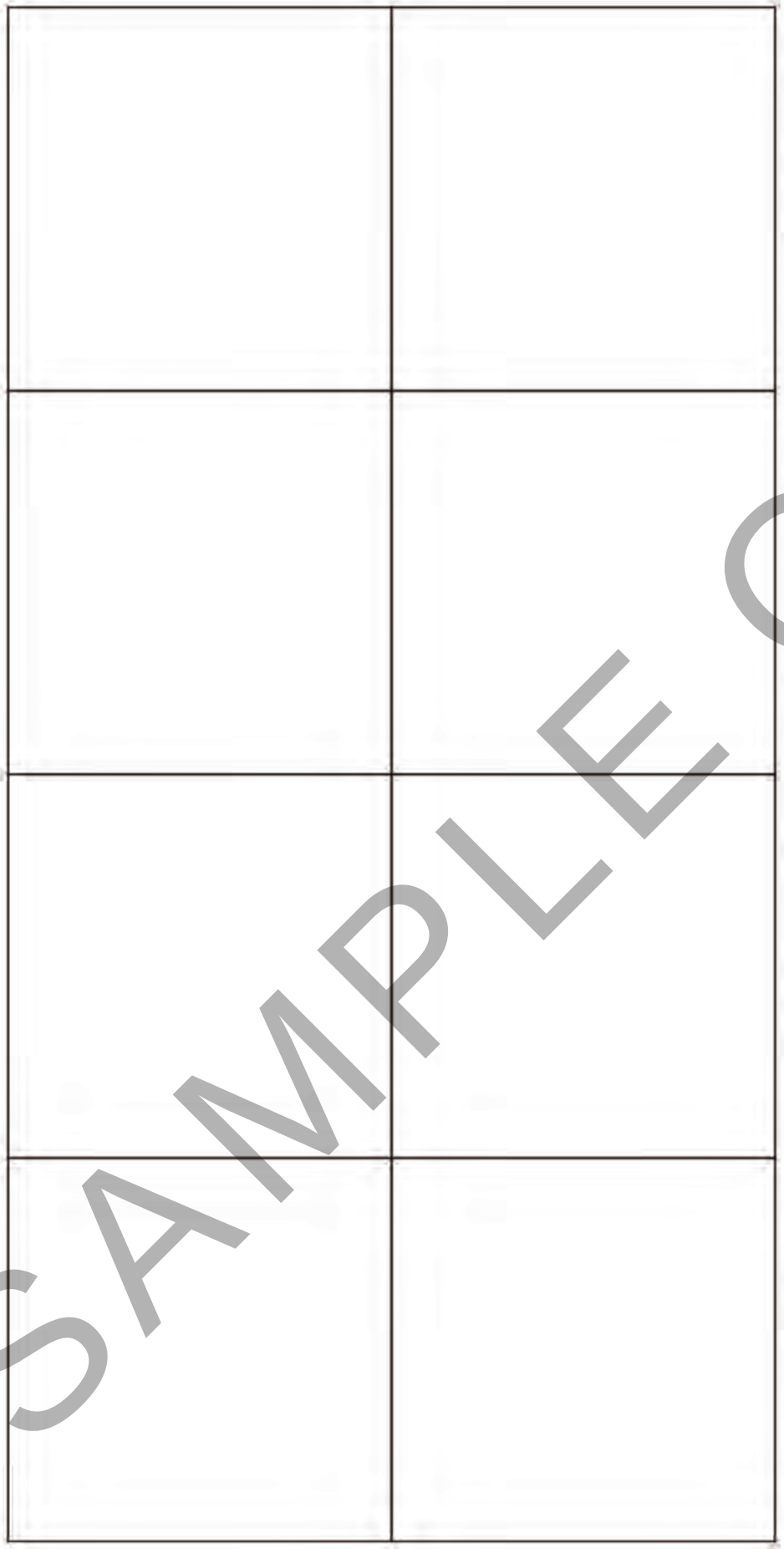
5

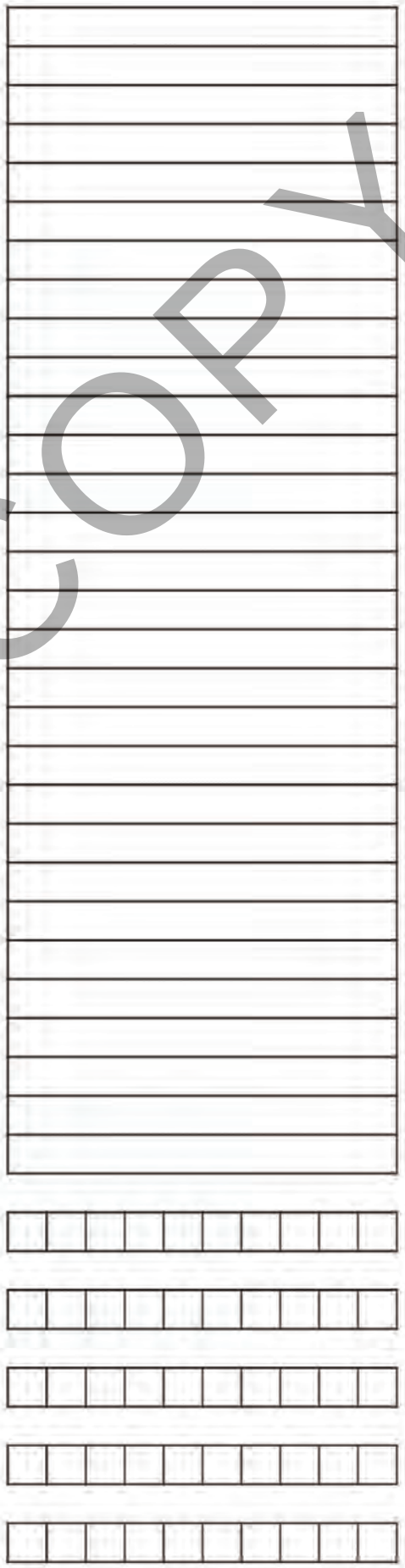
Teacher Resource Copy Masters

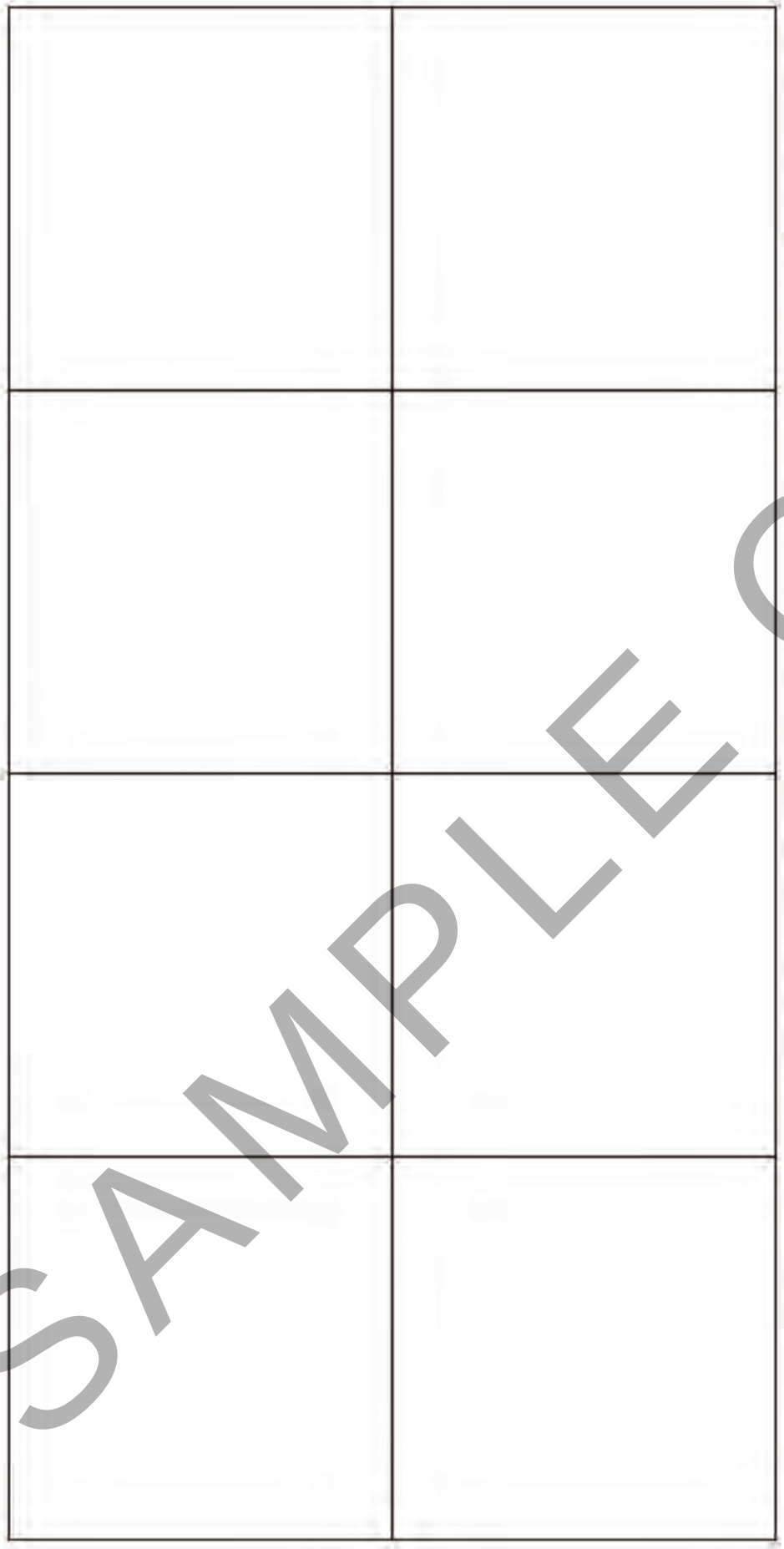
LESSON BLACKLINE MASTERS

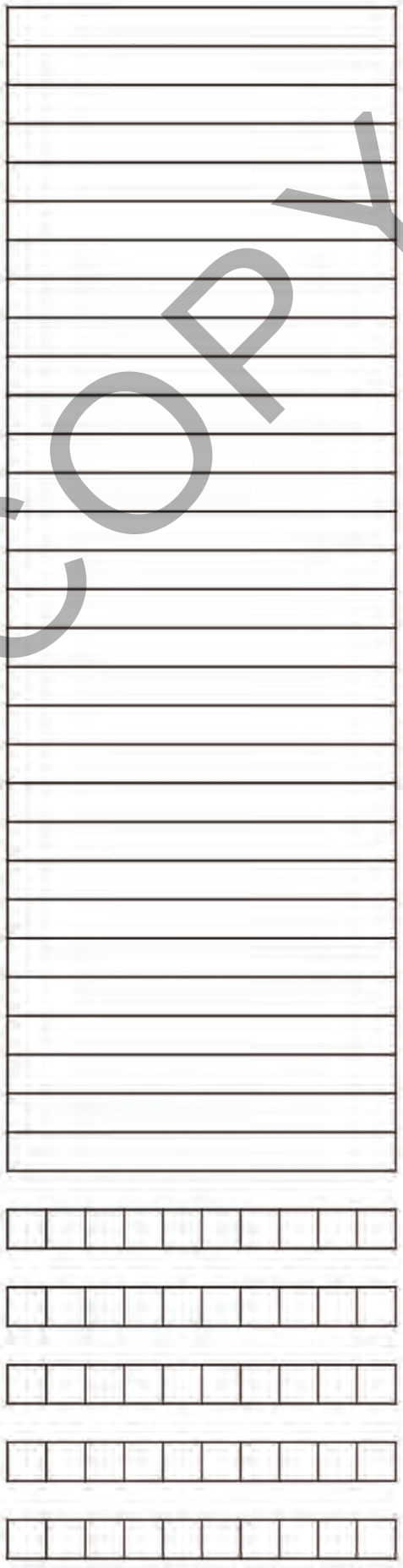
address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade6.5.2.2	Squares and Rectangles Cutouts	1	no	yes	yes	no	yes	no
Activity Grade6.5.2.3	Squares and Rectangles Cutouts	1	no	yes	yes	no	yes	no
Activity Grade6.5.2.4	Squares and Rectangles Cutouts	1	no	yes	yes	no	yes	no
Activity Grade6.5.3.2	Squares and Rectangles Cutouts	1	no	yes	yes	no	yes	no
Activity Grade6.5.3.3	Squares and Rectangles Cutouts	1	no	yes	yes	no	yes	no
Activity Grade6.5.9.2	Squares and Rectangles Cutouts	1	no	yes	yes	no	yes	no
Activity Grade6.5.10.3	Squares and Rectangles Cutouts	1	no	yes	yes	no	yes	no
Activity Grade6.5.14.2	Two Ropes and a Traveling Tortoise Cards	4	no	yes	no	no	no	no

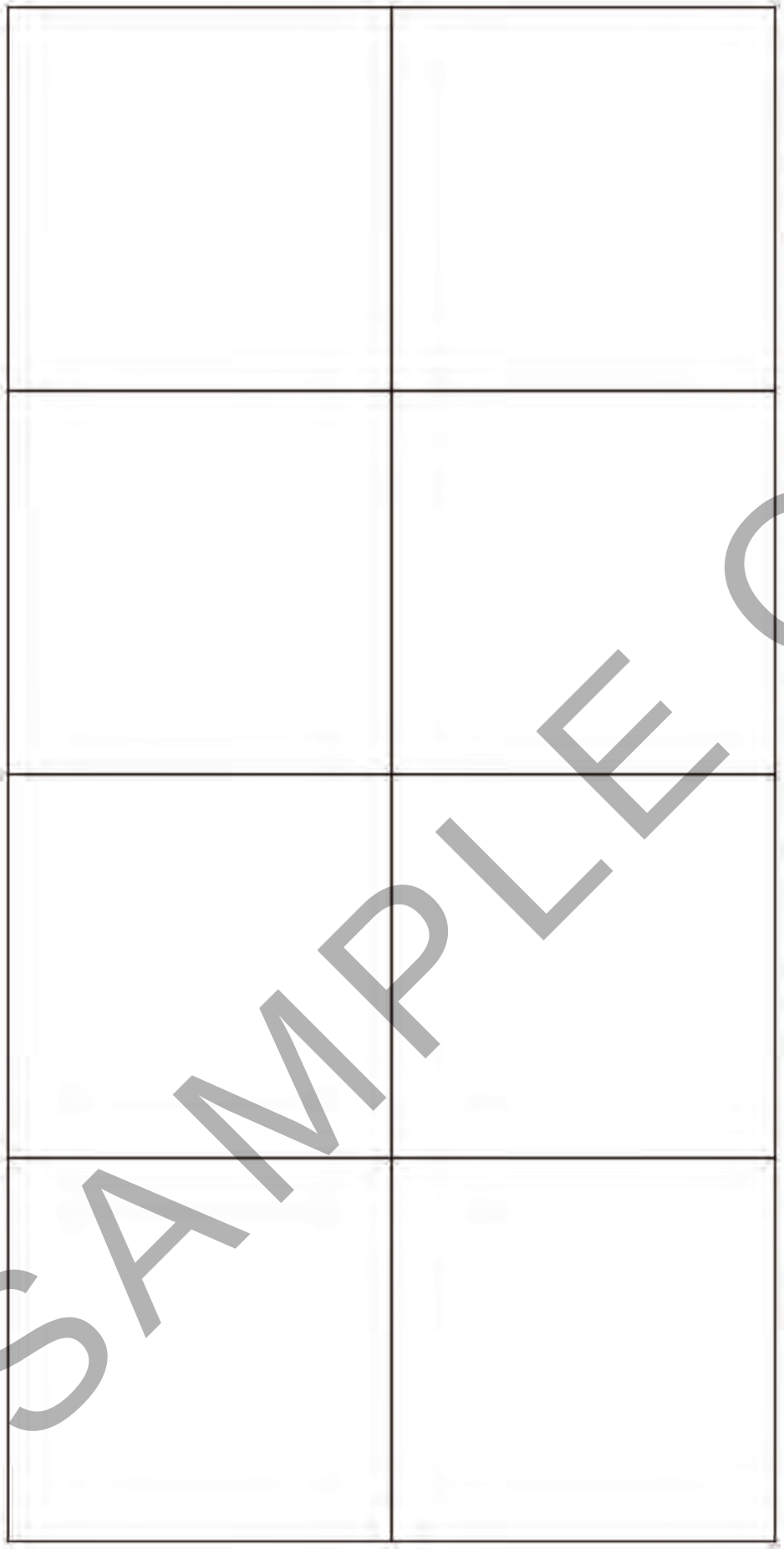
address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade6.5.15.1	Folding Paper Boxes Handout	2	no	no	no	no	no	no

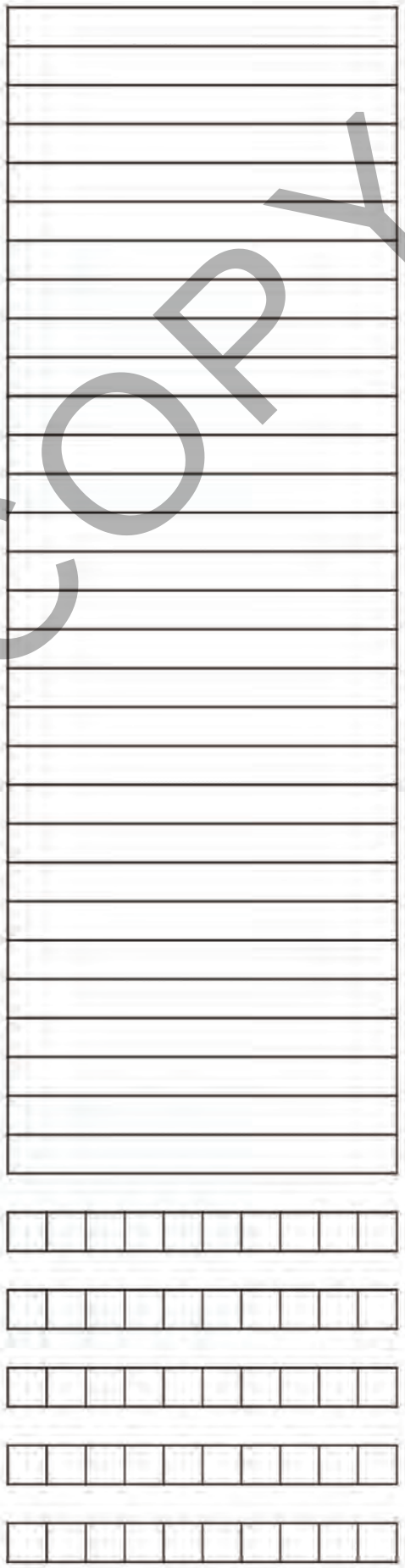


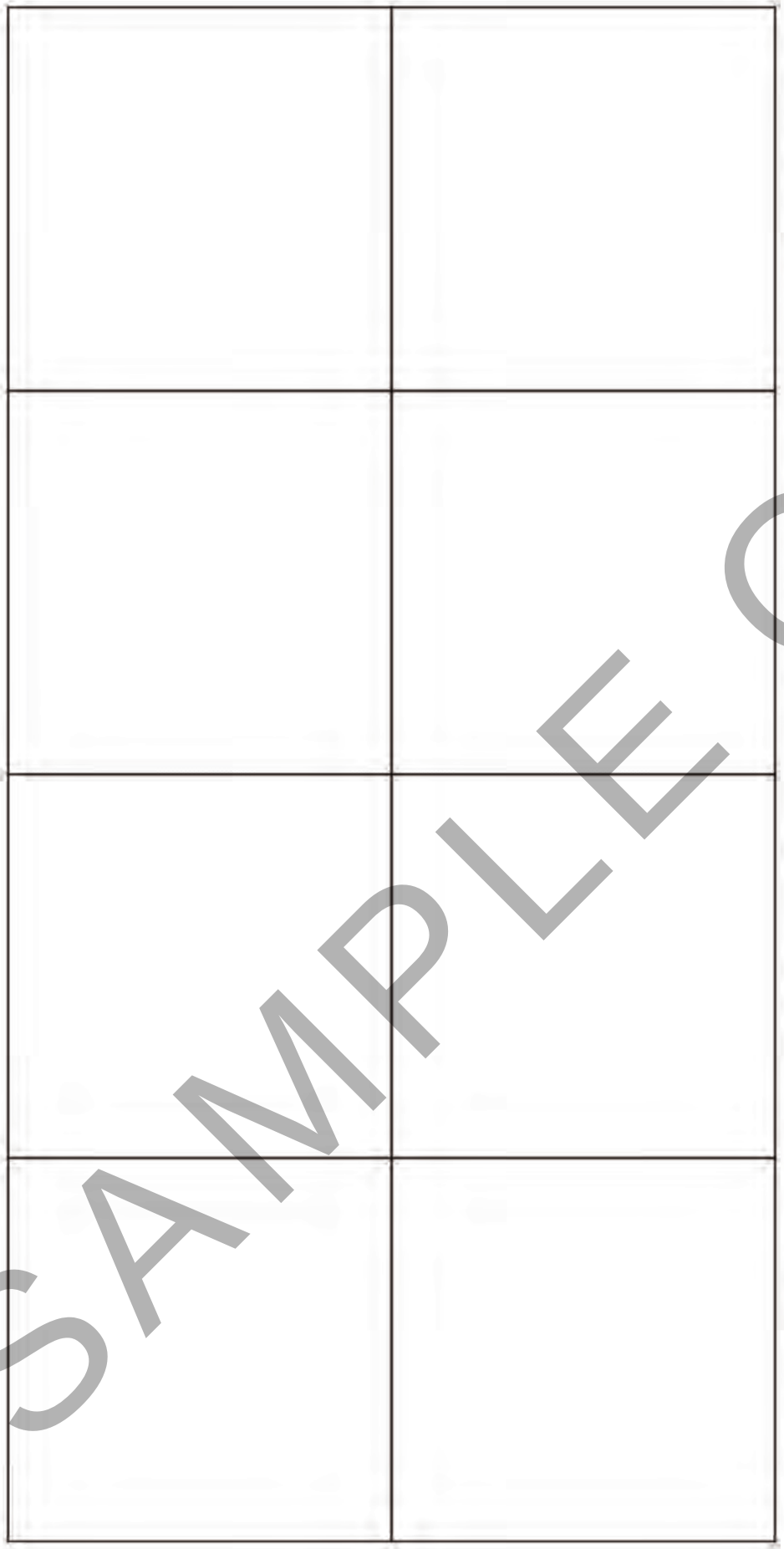


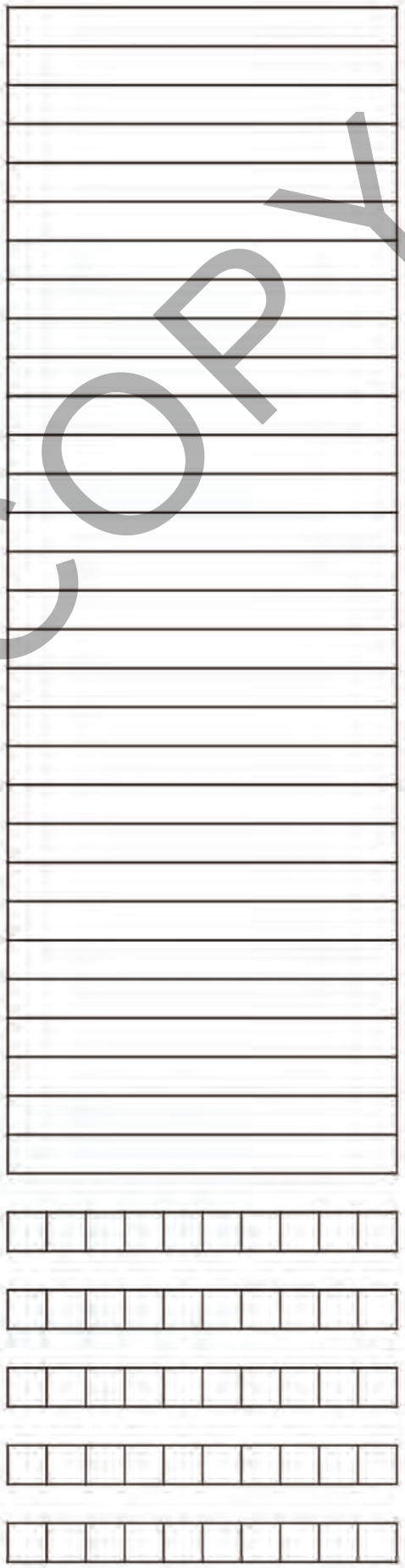


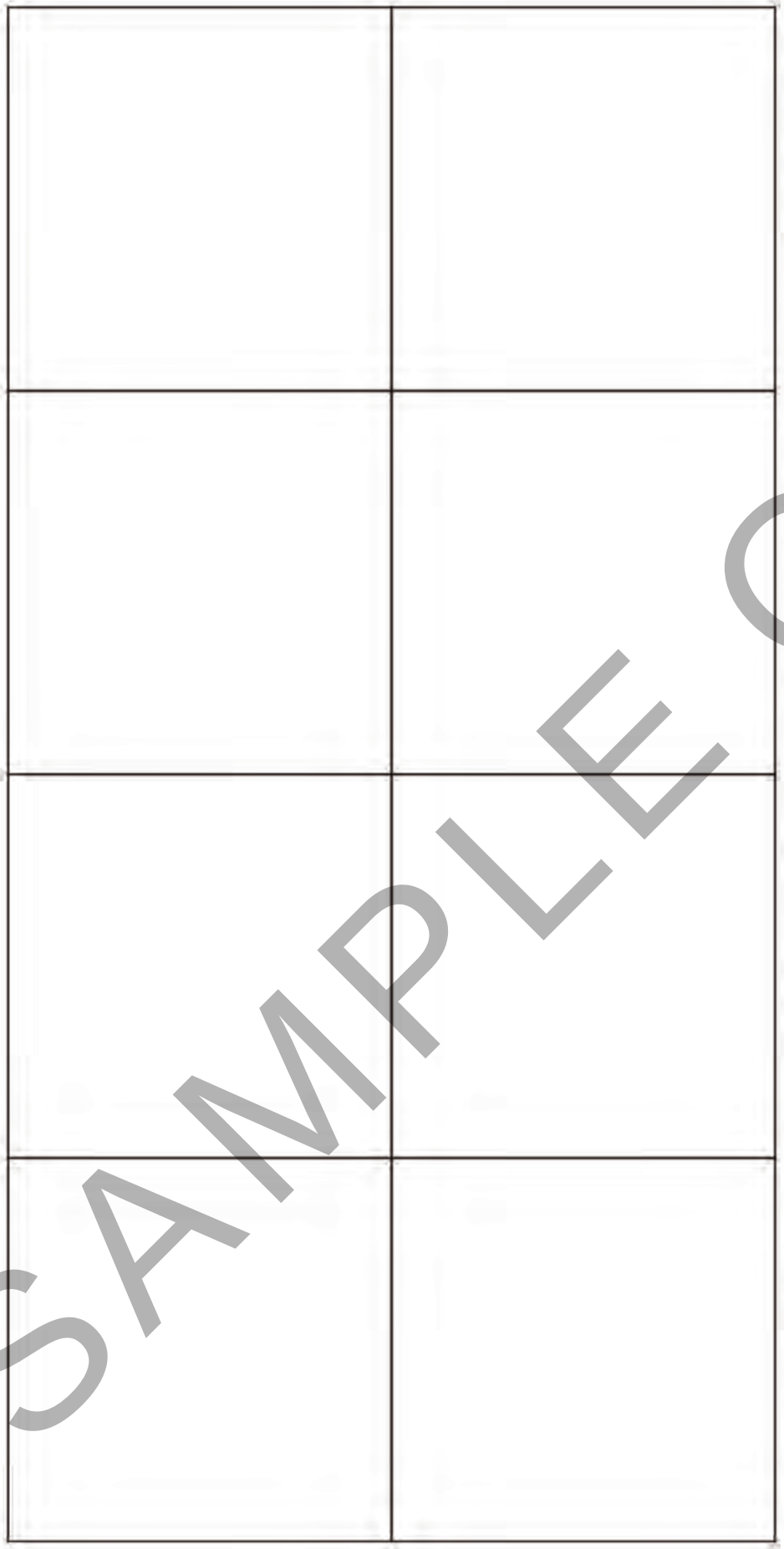


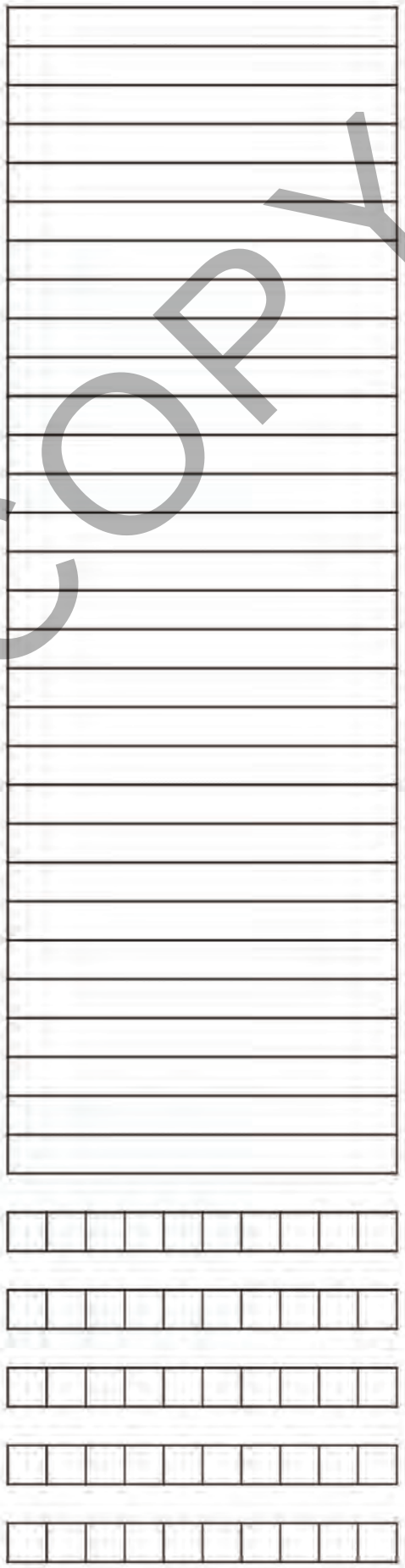


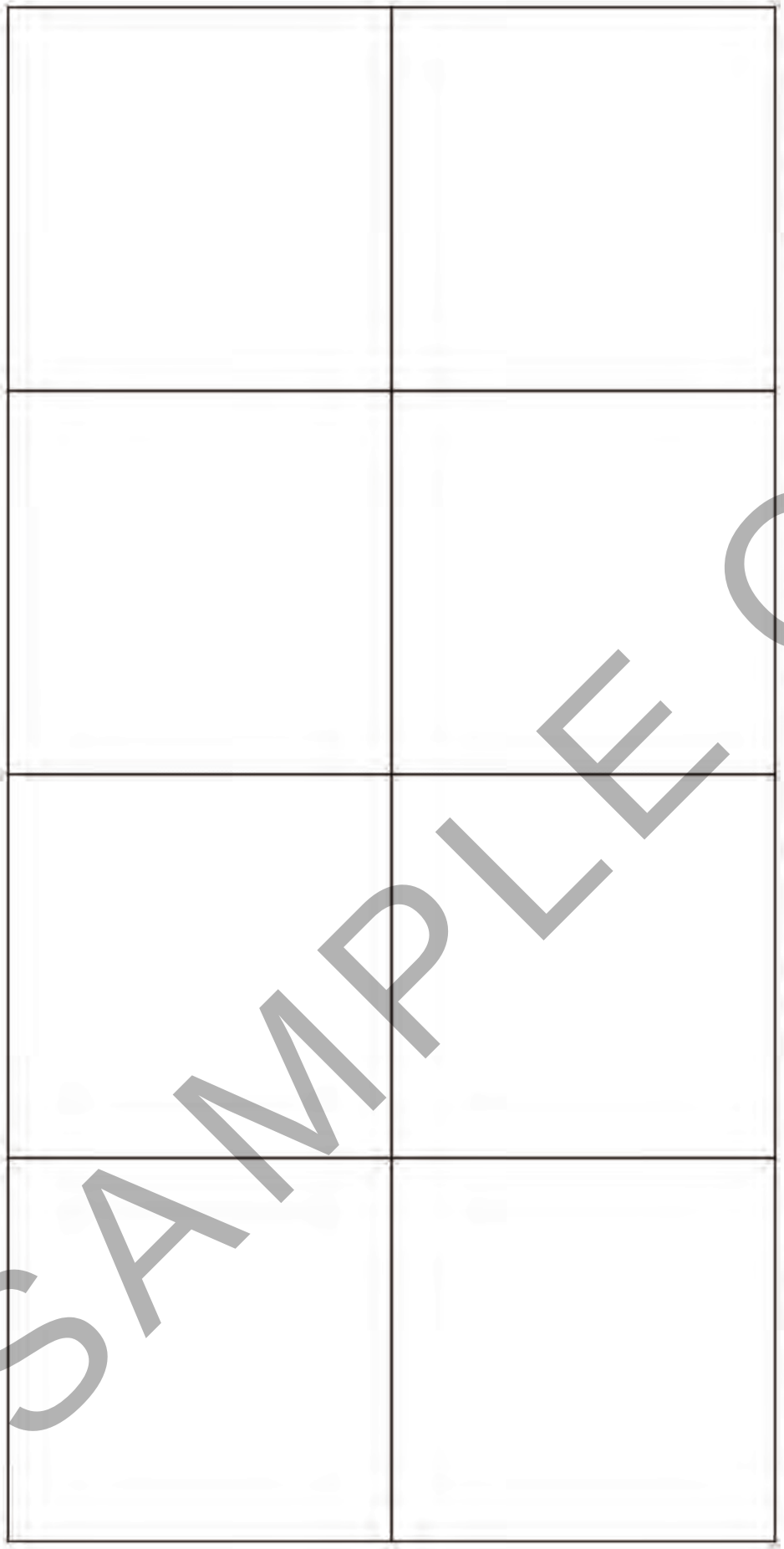


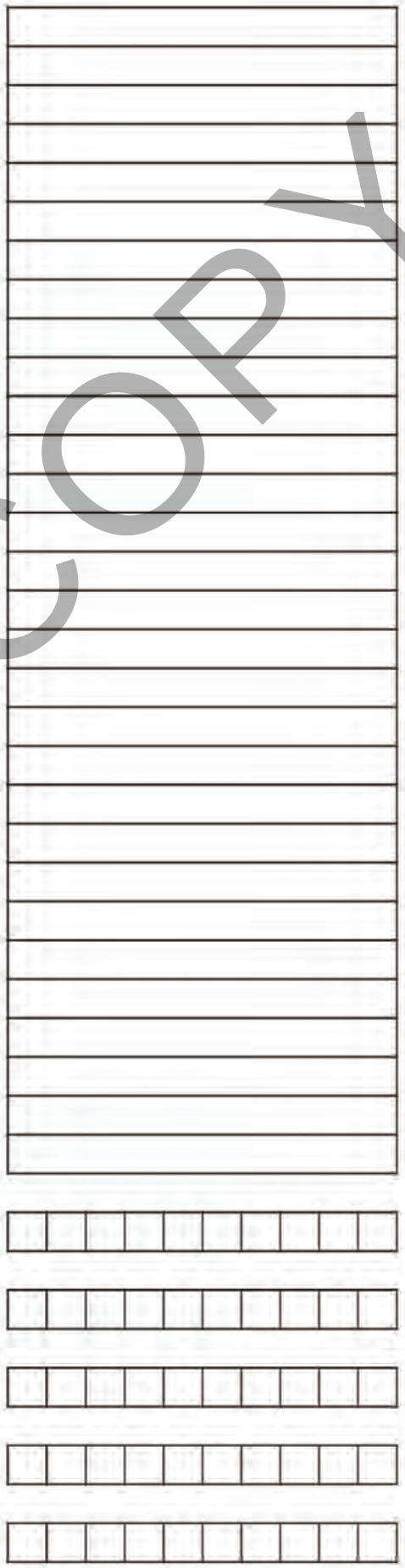


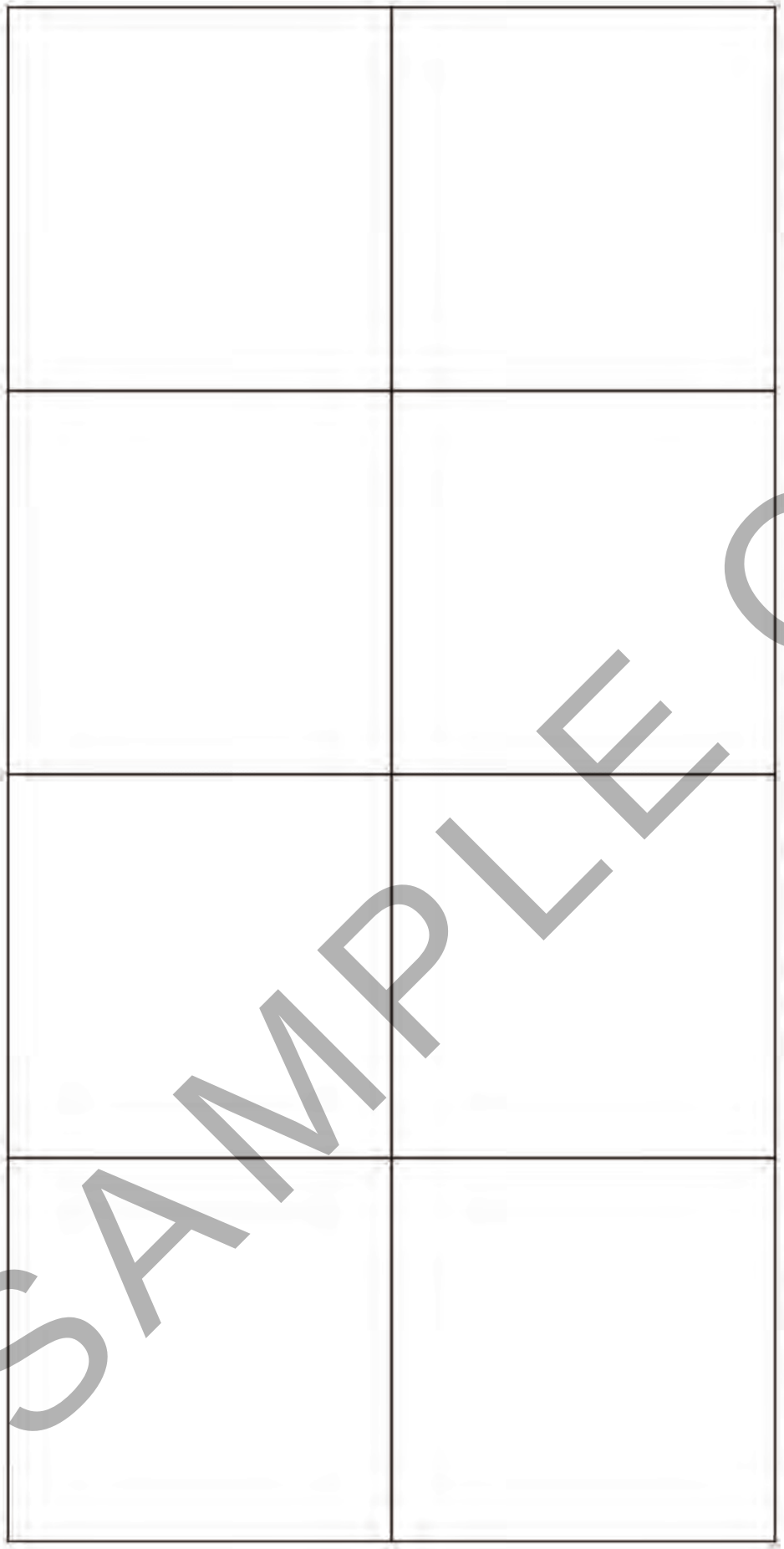


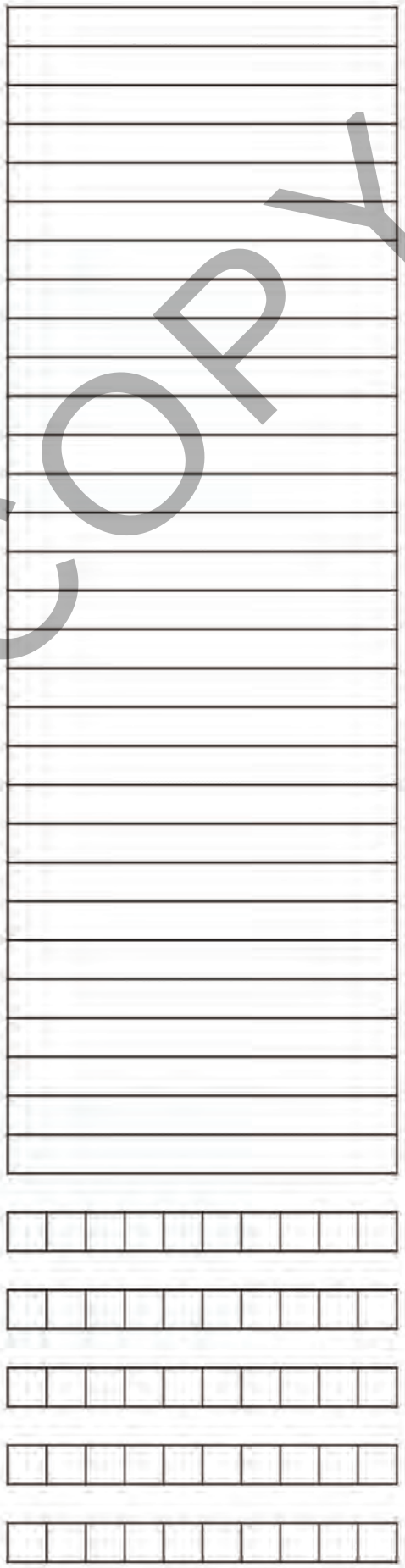












Info Gap: Two Ropes and a Traveling Tortoise

Problem Card 1

A blue rope and a red rope are each 5.75 meters in length. Each rope will be cut into equal pieces.

1. How long will each piece of the blue rope be?
2. How many pieces of the red rope will there be?

Info Gap: Two Ropes and a Traveling Tortoise

Data Card 1

- The pieces of the two ropes will not be the same length.
- The blue rope will be cut into 20 equal pieces.
- The red rope will be cut into 0.05-meter pieces.

Info Gap: Two Ropes and a Traveling Tortoise

Problem Card 2

A tortoise on an island traveled 0.945 mile.

1. How many miles per hour was it traveling?
2. If it kept going at the same rate, how long would it take to travel from one end of the island to the other?

Info Gap: Two Ropes and a Traveling Tortoise

Data Card 2

- The tortoise traveled 0.945 mile in 3.5 hours.
- The tortoise traveled at a constant speed.
- The distance from one end of the island to the other is 4.86 miles.

Info Gap: Two Ropes and a Traveling Tortoise

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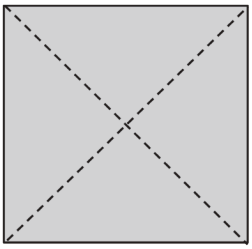
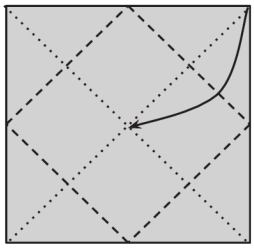
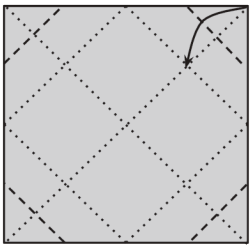


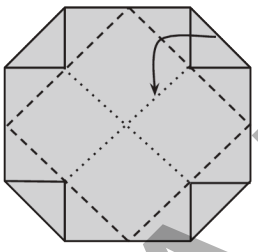
1. Start with a square sheet of paper. Fold it in half along each diagonal (the dashed lines), make a crease, and then unfold.



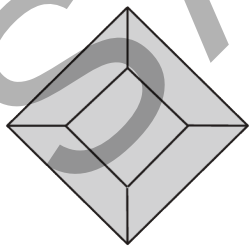
2. Fold one corner into the center, make a crease, and unfold. Repeat with the remaining three corners.



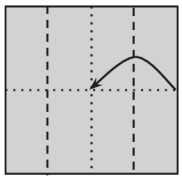
3. Fold the four corners to the crease line you made in the last step. Do not unfold!



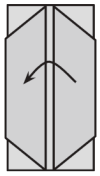
4. Re-fold along the creases you made in step 2.



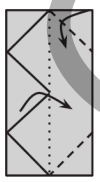
5. It should look like this now. Flip the whole thing over, and rotate it so that it looks like a square instead of a diamond.



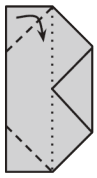
6. Fold the left edge and the right edge to the center crease.



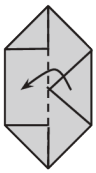
7. Fold over just the top layer from right to left.



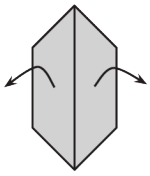
8. Fold in the top right corner and the bottom right corner. Then, flip the two top flaps from left to right.



9. Repeat the process on the left side. Fold in the top left corner and the bottom left corner.



10. Fold the top flap of paper back from right to left.



11. Pull the top layers away from each other, and allow your box to become three dimensional. Crease the edges to make it look like a box!

GRADE 6

UNIT

6

Teacher Resource Copy Masters

LESSON BLACKLINE MASTERS

address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Activity Grade6.6.4.2	Equations and Solutions Cards	2	no	yes	no	no	no	no
Activity Grade6.6.6.3	Staying Active Cards	2	no	yes	yes	no	no	no
Activity Grade6.6.19.1	Equations and Tables Cards	1	no	yes	yes	no	no	no

Card Sort: Equations and Solutions
A
$$2x = \frac{1}{4}$$

Card Sort: Equations and Solutions
B
$$4x = 2$$

Card Sort: Equations and Solutions
C
$$\frac{1}{4}x = 2$$

Card Sort: Equations and Solutions
D
$$0.4x = 2$$

Card Sort: Equations and Solutions
E
$$x + 2 = 4$$

Card Sort: Equations and Solutions
F
$$x + \frac{1}{2} = 4$$

Card Sort: Equations and Solutions
G
$$x + 0.2 = 4$$

Card Sort: Equations and Solutions
H
$$x + \frac{1}{4} = \frac{1}{2}$$

Card Sort: Equations and Solutions
I
$$x = \frac{7}{2}$$

Card Sort: Equations and Solutions
J
$$x = \frac{2}{4}$$

Card Sort: Equations and Solutions
K
$$x = 5$$

Card Sort: Equations and Solutions
L
$$x = \frac{1}{8}$$

Card Sort: Equations and Solutions
M
$$x = 2$$

Card Sort: Equations and Solutions
N
$$x = 8$$

Card Sort: Equations and Solutions
O
$$x = 3.8$$

Card Sort: Equations and Solutions
P
$$x = \frac{1}{4}$$

Info Gap: Staying Active

Problem Card 1

Health experts recommend that children ages 6–17 be physically active for at least some amount of time each day.

Yesterday, Elena did some walking, running, jumping, and biking. The amount of time she spent being active was more than 100% of the recommended time for children.

How many minutes of physical activity per day are recommended for children?

Info Gap: Staying Active

Data Card 1

- Elena walked to school, played tag and jumped rope during recess, and biked around her neighborhood after school.
- Yesterday, Elena was physically active for 75 minutes.
- Yesterday, Elena was physically active for 125% of the recommended amount of time for children.

Info Gap: Staying Active

Problem Card 2

Last week, a teacher, who is a wheelchair user, did some moderate exercises as they went about their everyday activities.

The amount of time they spent being moderately active was a little less than the recommended amount of time for adults.

How many minutes of moderate physical activity per week is recommended for adults?

Info Gap: Staying Active

Data Card 2

- The teacher did stretching exercises each morning and lifted hand weights in the evening. On the weekend, they cleaned their house and went for a short swim.
- Altogether, the teacher spent 132 minutes doing moderate physical activity last week.
- Last week, the teacher was physically active for 88% of the recommended time for adults.

Card Sort: Equations and Tables
A

$$S - 2 = T$$

Card Sort: Equations and Tables
B

$$G = J + 13$$

Card Sort: Equations and Tables
C

$$P = I - 47.50$$

Card Sort: Equations and Tables
D

$$C + 273.15 = K$$

Card Sort: Equations and Tables
E

$$E = 6s$$

Card Sort: Equations and Tables
F

$$m = 8.96V$$

Card Sort: Equations and Tables
G

$$y = \frac{1}{12}x$$

Card Sort: Equations and Tables
H

$$g = 28.35z$$

Card Sort: Equations and Tables

I

independent variable	dependent variable
5	18
36	49
75	88

Card Sort: Equations and Tables

J

independent variable	dependent variable
2.5	22.4
20	179.2
75	672

Card Sort: Equations and Tables

K

independent variable	dependent variable
20	$1\frac{2}{3}$
36	3
804	67

Card Sort: Equations and Tables

L

independent variable	dependent variable
58.85	11.35
175.5	128
804	756.5

Card Sort: Equations and Tables

M

independent variable	dependent variable
2.5	275.65
20	293.15
58.85	332

Card Sort: Equations and Tables

N

independent variable	dependent variable
5	3
20	18
36	34

Card Sort: Equations and Tables

O

independent variable	dependent variable
2.6	73.71
20	567
36	1,020.6

Card Sort: Equations and Tables

P

independent variable	dependent variable
2.6	15.6
36	216
58.85	353.1