

IMKH California



Integrated Math 1

Teacher Resource Copy
Masters

UNITS 7-9



Kendall Hunt

Book 3
Certified by Illustrative Mathematics®

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 INTEGRATED MATH 1

UNIT

1-9

Teacher Resource Copy
Masters

BLACKLINE MASTERS LIST

address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Unit IntegratedMath1.1	Blank Reference Chart	1	yes	no	no	no	no	no
Unit IntegratedMath1.1	Math 1 Geometry Reference Chart - Full	1	no	no	yes	no	yes	no
Unit IntegratedMath1.1	Math 1 Geometry Reference Chart - Scaffolded (SF)	1	yes	no	yes	no	yes	no
Unit IntegratedMath1.1	Math 1 Geometry Reference Chart - Scaffolded (TF)	1	no	no	no	no	yes	no
Unit IntegratedMath1.2	Blank Reference Chart	1	yes	no	no	no	no	no
Unit IntegratedMath1.2	Math 1 Geometry Reference Chart - Full	1	no	no	yes	no	yes	no

address	title	students per copy	written on?	requires cutting?	card stock recommended?	color paper recommended?	used multiple times?	used as a center material?
Unit IntegratedMath1.2	Math 1 Geometry Reference Chart - Scaffolded (SF)	1	yes	no	yes	no	yes	no
Unit IntegratedMath1.2	Math 1 Geometry Reference Chart - Scaffolded (TF)	1	no	no	no	no	yes	no
Unit IntegratedMath1.5	Blank Reference Chart	1	yes	no	no	no	no	no
Unit IntegratedMath1.5	Math 1 Geometry Reference Chart - Full	1	no	no	yes	no	yes	no
Unit IntegratedMath1.5	Math 1 Geometry Reference Chart - Scaffolded (SF)	1	yes	no	yes	no	yes	no
Unit IntegratedMath1.5	Math 1 Geometry Reference Chart - Scaffolded (TF)	1	no	no	no	no	yes	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 IntegratedMath1.1.2.1	6-12 Blank Math Community Chart	30	no	no	no	no	no	no
Activity IntegratedMath1.1.9.4	Another Layer Handout	1	yes	no	no	no	no	no
Activity IntegratedMath1.1.10.2	Blank Reference Chart	1	yes	no	no	no	no	no
Activity IntegratedMath1.1.11.2	What's the Point Reflections Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.1.14.2	What's the Point Rotations Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.1.15.2	Self Reflection Handout	8	yes	yes	no	no	no	no
Activity IntegratedMath1.1.17.2	How Did This Get There Cards	2	no	yes	no	yes	no	no
Activity IntegratedMath1.1.19.2	Duplicate a Design Handout	1	no	no	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 IntegratedMath1.2.3.2	Invisible Triangles Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.2.3.3	Triangle Transformation Proof Template Handout	1	no	no	no	no	no	no
Activity IntegratedMath1.2.4.2	Too Much Information Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.2.5.3	Triangle Transformation Proof Template Handout	1	no	no	no	no	no	no
Activity IntegratedMath1.2.6.2	Triangle Transformation Proof Template Handout	1	no	no	no	no	no	no
Activity IntegratedMath1.2.6.3	What Do We Know About Isosceles Triangles Handout	2	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 IntegratedMath1.2.7.2	Triangle Transformation Proof Template Handout	1	no	no	no	no	no	no
Activity IntegratedMath1.2.7.3	What Do We Know About Parallelograms Handout	30	no	no	no	no	no	no
Activity IntegratedMath1.2.8.2	Lots of Lines (Part 1) Handout	2	no	yes	no	no	no	no
Activity IntegratedMath1.2.9.2	Triangle Transformation Proof Template Handout	1	no	no	no	no	no	no
Activity IntegratedMath1.2.10.1	Brace Yourself! Short Strips	1	no	yes	yes	yes	no	no
Activity IntegratedMath1.2.10.1	Brace Yourself! Long Strips	1	no	yes	yes	yes	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 IntegratedMath1.2.10.2	More Practice Seeing Shortcuts Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.2.11.3	Ambiguously Ambiguous Handout	30	no	yes	no	no	no	no
Activity IntegratedMath1.2.11.3	Ambiguously Ambiguous Answer Key	0	no	no	no	no	no	no
Activity IntegratedMath1.3.4.2	Matching Distributions Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.3.5.2	Heartbeats Part 1 Handout	2	yes	yes	no	no	no	no
Activity IntegratedMath1.3.5.3	Algebra 1 Unit 1 Useful Terms and Displays	30	no	no	no	no	yes	no
Activity IntegratedMath1.3.11.2	Describing Data Distributions Cards	2	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 IntegratedMath1.3.12.3	Algebra 1 Unit 1 Useful Terms and Displays	30	no	no	no	no	yes	no
Activity IntegratedMath1.3.13.2	African and Asian Elephants Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.3.14.1	Algebra 1 Unit 1 Useful Terms and Displays	30	no	no	no	no	yes	no
Activity IntegratedMath1.3.16.3	Heights and Handedness Handout	2	no	no	no	no	no	no
Activity IntegratedMath1.4.16.3	What Comes Next Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.4.17.3	Sorting Systems Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.4.18.3	Linear Systems Cards	2	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 IntegratedMath1.5.7.2	Lines Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.5.9.3	Triangle Types Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.6.1.3	Running to the Dentist Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.6.5.2	Data Patterns Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.6.6.3	Best Residuals Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.6.7.2	Scatter Plot Fit Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.6.10.2	Playing Dirty Handout	2	no	no	no	no	no	no
Activity IntegratedMath1.7.6.3	Representations of Inequalities Cards	2	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 IntegratedMath1.7.8.3	Terms of A Team Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.8.10.2	Possible or Impossible Cards	2	no	yes	yes	no	no	no
Activity IntegratedMath1.8.12.4	Piecing It Together Cards	2	yes	yes	no	no	no	no
Activity IntegratedMath1.8.13.1	How Good Are Your Guesses Handout	1	yes	no	no	no	no	no
Activity IntegratedMath1.8.17.2	Caesar Says, "Shift" Cutouts	2	no	yes	yes	no	no	no
Activity IntegratedMath1.8.18.3	Custom Mugs Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.9.6.3	Matching Descriptions to Graphs Cards	2	no	yes	no	no	no	no
Activity IntegratedMath1.9.9.4	Smartphone Sales Cards	2	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?
Modeling Prompt: Evaluating a Sample Response to a Modeling Prompt	Modeling Rubric	1	yes	no	no	no	no	no
Modeling Prompt: Evaluating a Sample Response to a Modeling Prompt	Advice on Modeling	1	no	no	no	no	no	no
Modeling Prompt: The Garden Wall	Wall Diagram	1	yes	no	no	no	no	no
Modeling Prompt: The Garden Wall	Modeling Rubric	1	yes	no	no	no	no	no
Modeling Prompt: The Garden Wall	Advice on Modeling	1	no	no	no	no	no	no
Modeling Prompt: 2,000 Calories	Food Tables	1	yes	no	no	no	no	no
Modeling Prompt: 2,000 Calories	Modeling Rubric	1	no	no	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?
Modeling Prompt: 2,000 Calories	Advice on Modeling	1	no	no	no	no	no	no
Modeling Prompt: How Much Water?	Modeling Rubric	1	yes	no	no	no	no	no
Modeling Prompt: How Much Water?	Advice on Modeling	1	no	no	no	no	no	no
Modeling Prompt: Display Your Data	Advice on Modeling	1	no	no	no	no	no	no
Modeling Prompt: Display Your Data	Modeling Rubric	1	yes	no	no	no	no	no
Modeling Prompt: A New Town	Advice on Modeling	1	no	no	no	no	no	no
Modeling Prompt: A New Town	Modeling Rubric	1	yes	no	no	no	no	no
Modeling Prompt: College Characteristics	Advice on Modeling	1	no	no	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?
Modeling Prompt: College Characteristics	Modeling Rubric	1	yes	no	no	no	no	no
Modeling Prompt: College Characteristics	College Data for Task Statement 1	1	no	no	no	no	no	no
Modeling Prompt: College Characteristics	College Data for Task Statement 2	1	no	no	no	no	no	no
Modeling Prompt: A New Heating System	Advice on Modeling	1	no	no	no	no	no	no
Modeling Prompt: A New Heating System	Modeling Rubric	1	yes	no	no	no	no	no
Modeling Prompt: Giving Bonuses	Modeling Rubric	1	yes	no	no	no	no	no
Modeling Prompt: Giving Bonuses	Advice on Modeling	1	no	no	no	no	no	no
Modeling Prompt: Planning a Vacation	Modeling Rubric	1	yes	no	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?
Modeling Prompt: Planning a Vacation	Advice on Modeling	1	no	no	no	no	no	no
Modeling Prompt: Critically Examining National Debt	US National Debt Data	1	no	no	no	no	no	no
Modeling Prompt: Critically Examining National Debt	Modeling Rubric	1	yes	no	no	no	no	no
Modeling Prompt: Critically Examining National Debt	Advice on Modeling	1	no	no	no	no	no	no



UNIT

7

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LESSON BLACKLINE MASTERS

Card Sort: Representations of Inequalities
situation

- A jar contains only nickels and dimes.
- There is no more than \$6 in the jar.
- x represents the number of nickels and y represents the number of dimes in the jar.

Card Sort: Representations of Inequalities
situation

- The length of a rectangle is represented by x and its width is represented by y .
- The perimeter of the rectangle is greater than 240 units.

Card Sort: Representations of Inequalities
inequality

$$y \geq 100$$

Card Sort: Representations of Inequalities
inequality

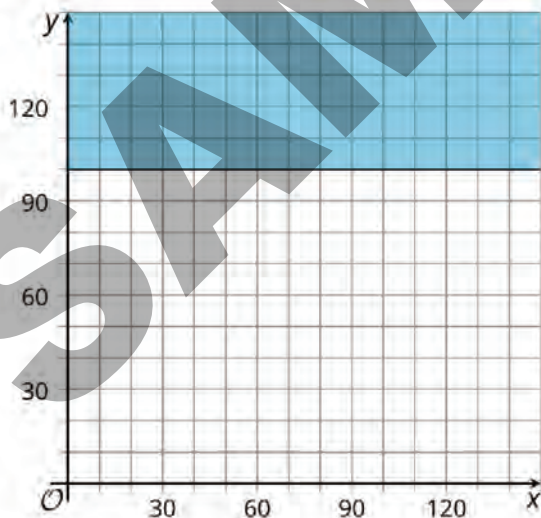
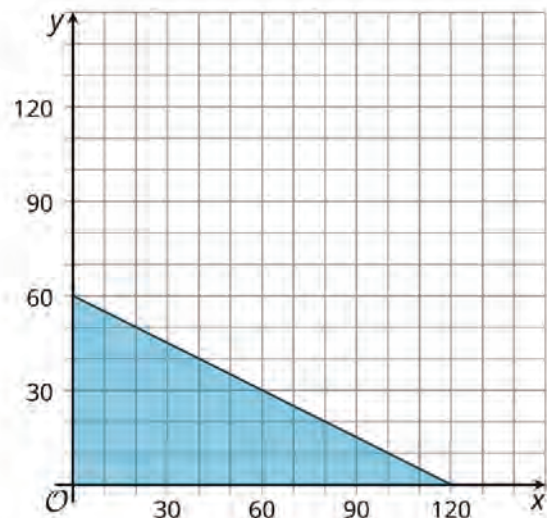
$$4x + 3y \geq 240$$

Card Sort: Representations of Inequalities
a solution

$$(80, 30)$$

Card Sort: Representations of Inequalities
a solution

$$(20, 50)$$

Card Sort: Representations of Inequalities
graphCard Sort: Representations of Inequalities
graph

Card Sort: Representations of Inequalities
situation

- A seller at the Saturday market sells honey and jam. He wants to make at least \$240 profit this Saturday.
- He makes \$4 profit for each jar of honey he sells and \$3 profit for each jar of jam.
- x represents the number of jars of honey he sells and y represents the number of jars of jam.

Card Sort: Representations of Inequalities
situation

- A school is organizing a service trip. Students and teachers can sign up to go.
- x represents the number of teachers who sign up and y represents the number of students.
- The trip will only take place if at least 100 students sign up.

Card Sort: Representations of Inequalities
inequality

$$0.05x + 0.10y \leq 6.00$$

Card Sort: Representations of Inequalities
inequality

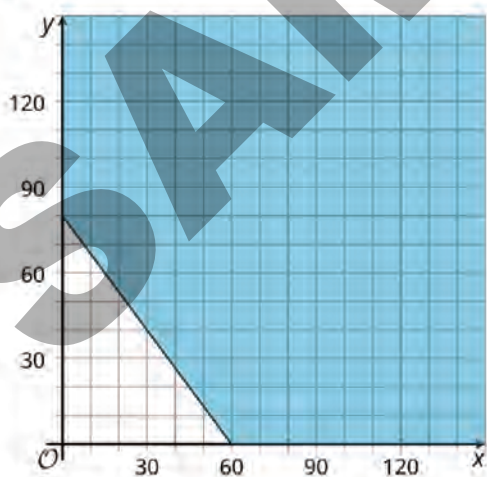
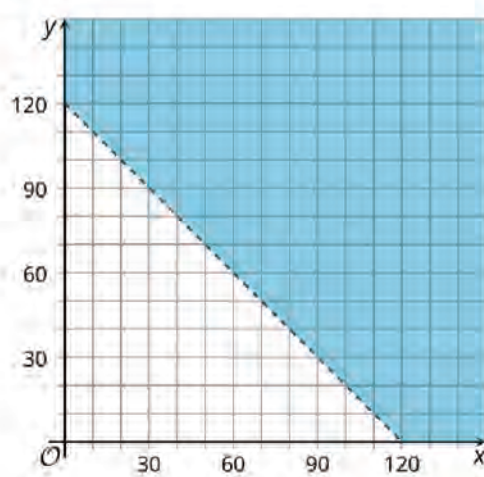
$$2x + 2y > 240$$

Card Sort: Representations of Inequalities
a solution

$(80, 50)$

Card Sort: Representations of Inequalities
a solution

$(20, 100)$

Card Sort: Representations of Inequalities
graphCard Sort: Representations of Inequalities
graph

Info Gap: Terms of a Team

Problem Card 1

To participate in a competition, each team must follow the rules about the allowable number of adults and children on a team.

1. A team has 6 adults and 8 children. Does the team meet all the membership rules of the competition?
2. What is the maximum number of adults allowed on a team?

If helpful, use the coordinate planes in your workbook or graph paper.

Info Gap: Terms of a Team

Data Card 1

- A team without adults is allowed.
- A team with only adults is not allowed.
- If 3 adults are on a team, there must be at least 6 children.
- Each team must have no more than 16 members in total.
- The number of adults must be at most half the number of children on the team.

Info Gap: Terms of a Team

Problem Card 2

Another competition has different membership rules.

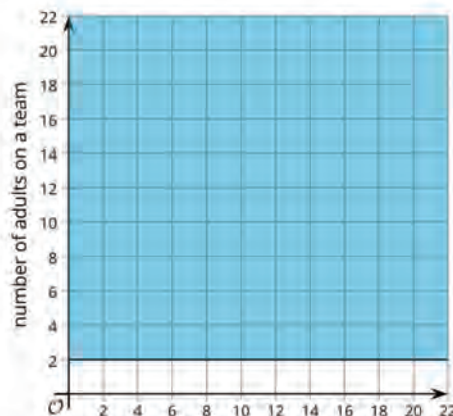
1. What is the minimum number of members that a team could have? How many adults and children would be on that team?
2. What is the maximum number of adults allowed on a team?

If helpful, use the coordinate planes in your workbook or graph paper.

Info Gap: Terms of a Team

Data Card 2

- A team with only adults is not allowed.
- A team with only children is not allowed.
- The number of children must be at least 3 times that of adults.
- The total number of people cannot exceed 20.
- This graph represents a rule about the number of adults on a team.





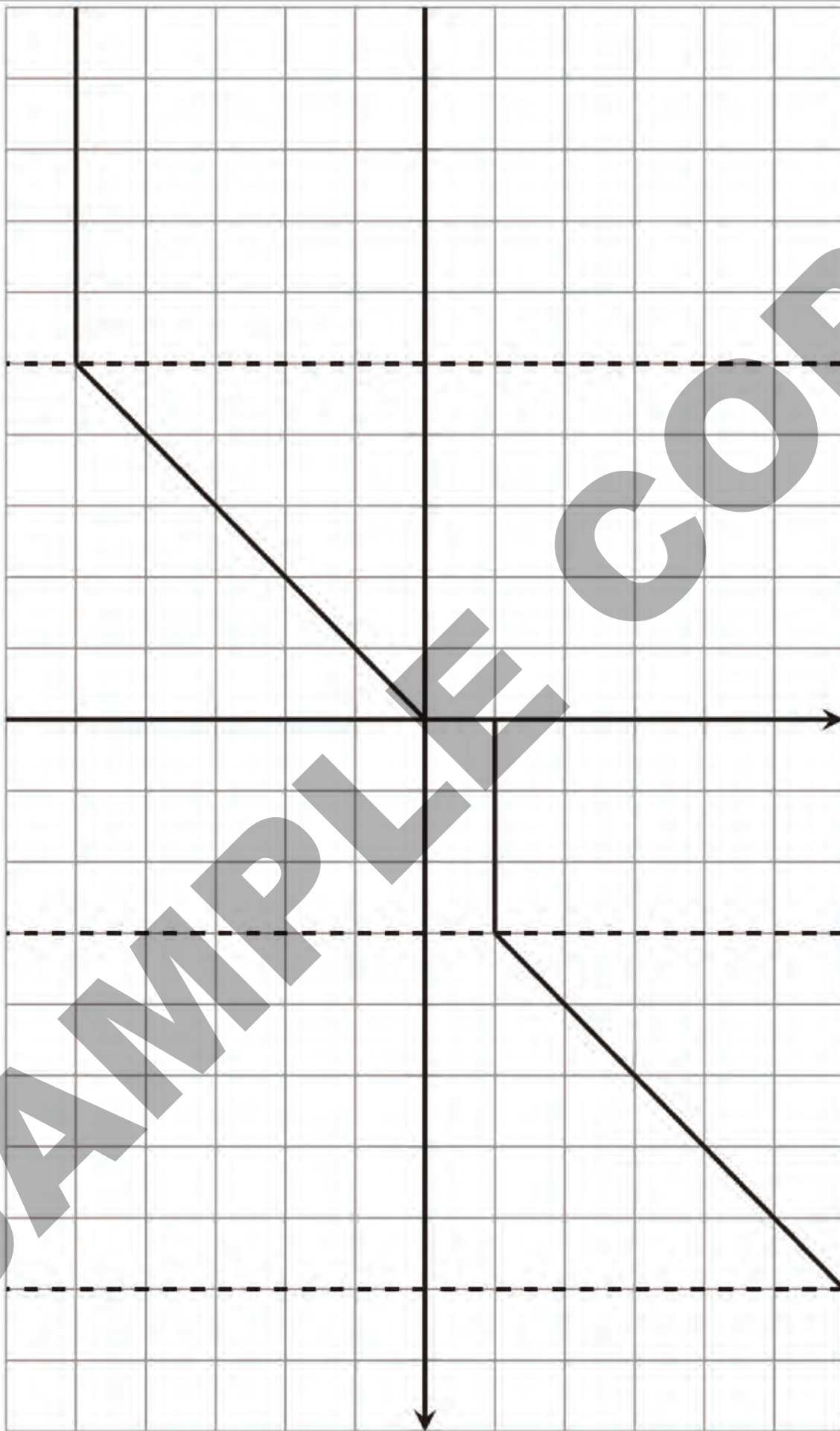
UNIT

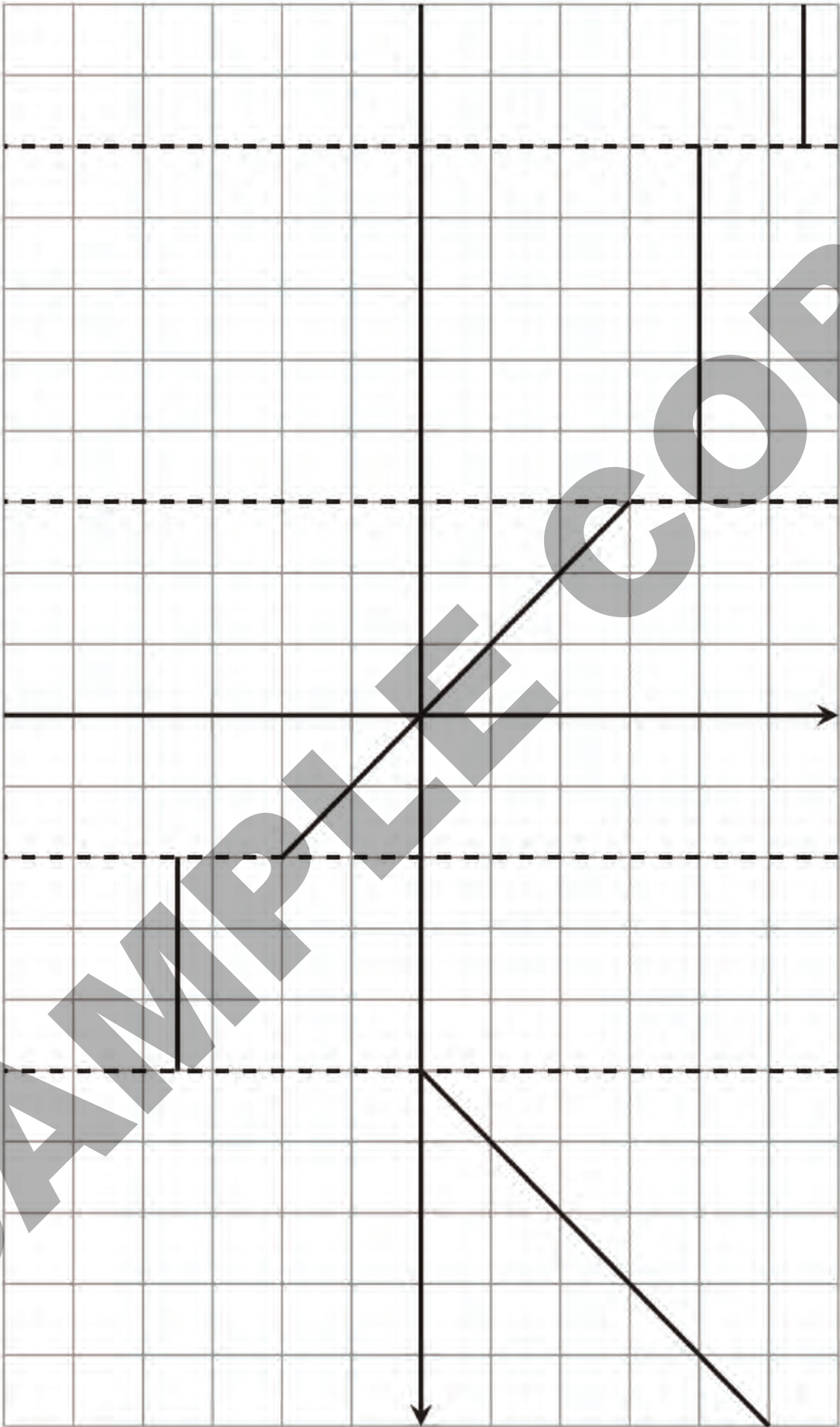
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LESSON BLACKLINE MASTERS

Card Sort: Possible or Impossible? -3	Card Sort: Possible or Impossible? $\frac{25}{4}$	Card Sort: Possible or Impossible? $\frac{3}{5}$
Card Sort: Possible or Impossible? 15	Card Sort: Possible or Impossible? 0.8	Card Sort: Possible or Impossible? 4
Card Sort: Possible or Impossible? 0	Card Sort: Possible or Impossible? 9	Card Sort: Possible or Impossible? 0.001
Card Sort: Possible or Impossible? -18	Card Sort: Possible or Impossible? 6.8	Card Sort: Possible or Impossible? 72
Card Sort: Possible or Impossible? -3	Card Sort: Possible or Impossible? $\frac{25}{4}$	Card Sort: Possible or Impossible? $\frac{3}{5}$
Card Sort: Possible or Impossible? 15	Card Sort: Possible or Impossible? 0.8	Card Sort: Possible or Impossible? 4
Card Sort: Possible or Impossible? 0	Card Sort: Possible or Impossible? 9	Card Sort: Possible or Impossible? 0.001
Card Sort: Possible or Impossible? -18	Card Sort: Possible or Impossible? 6.8	Card Sort: Possible or Impossible? 72





How Good Are Your Guesses?

Table A

guess	absolute guessing error

absolute guessing error

actual number: _____

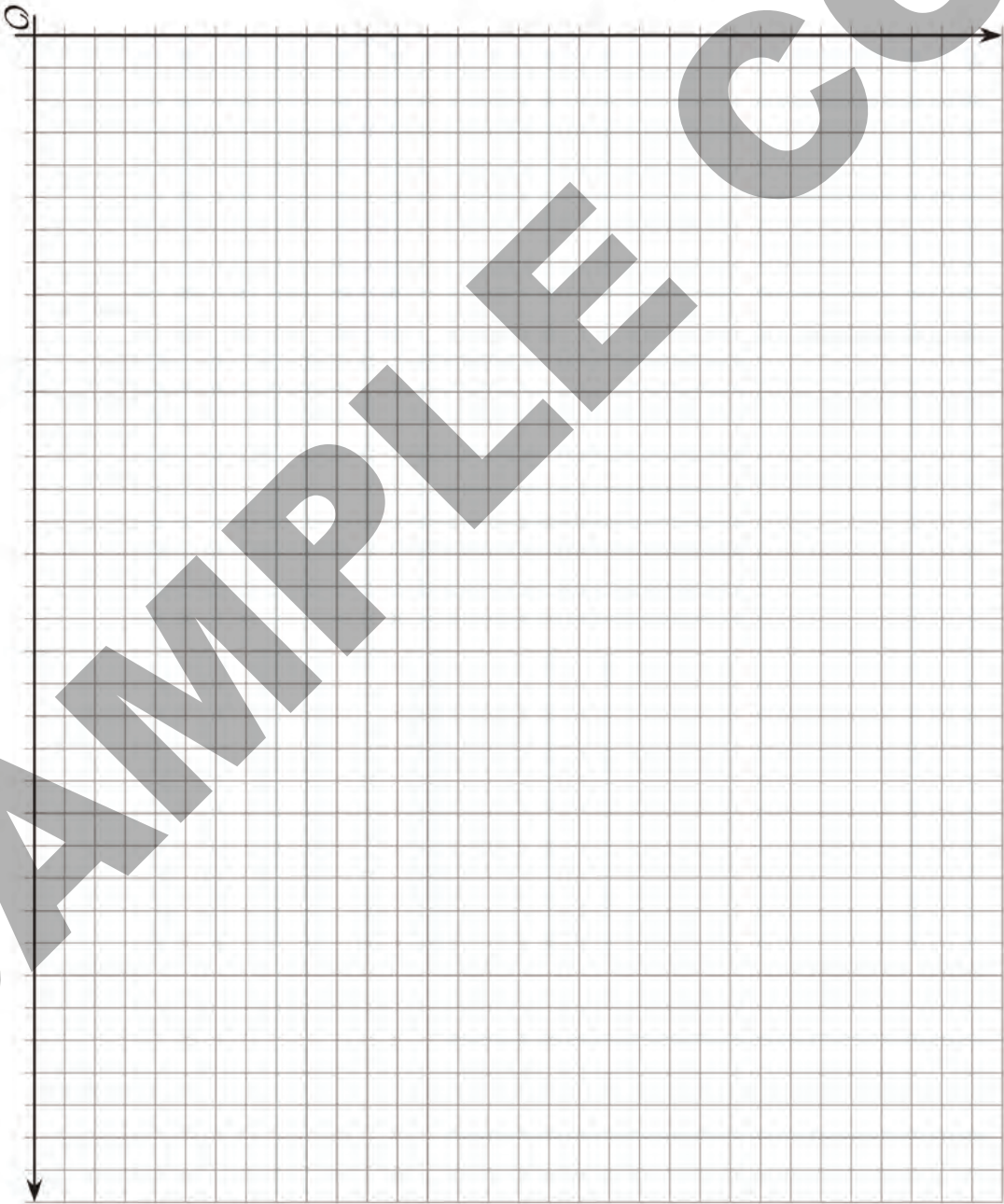
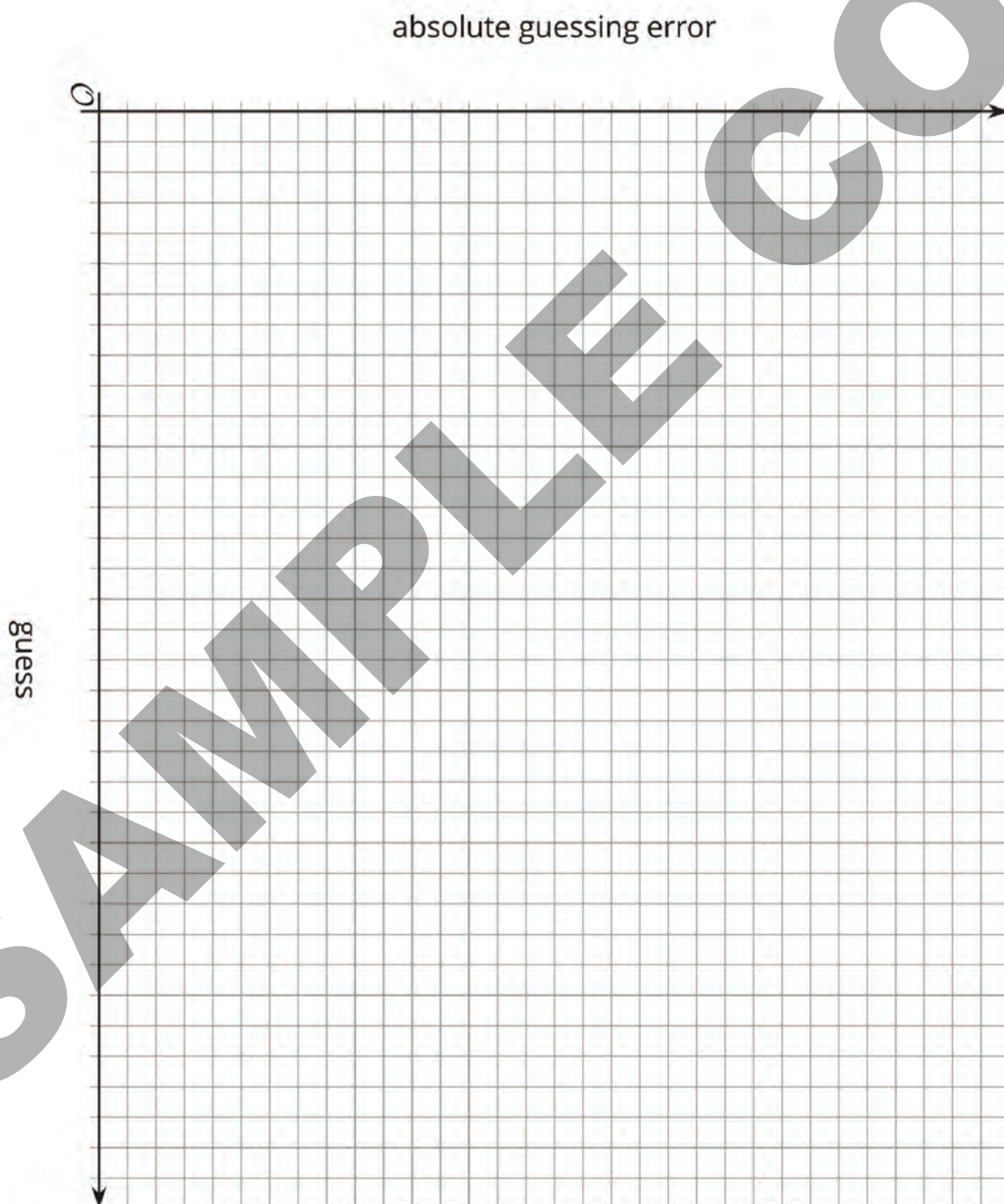


Table B

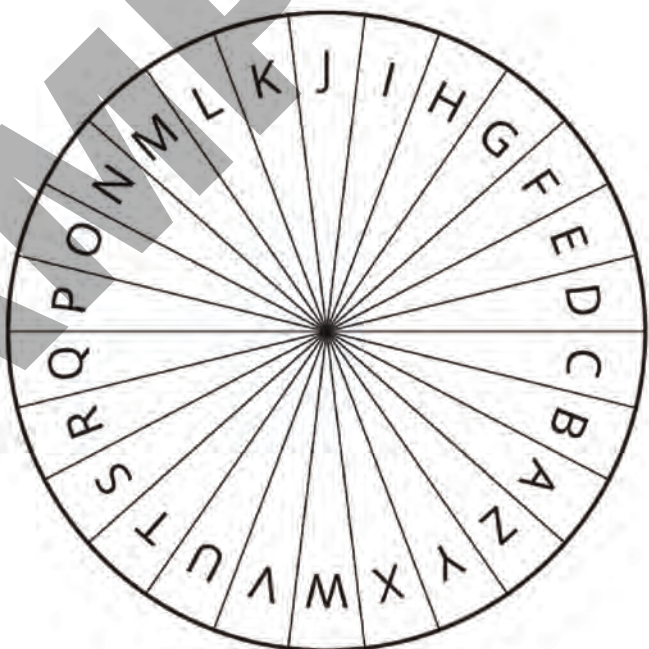
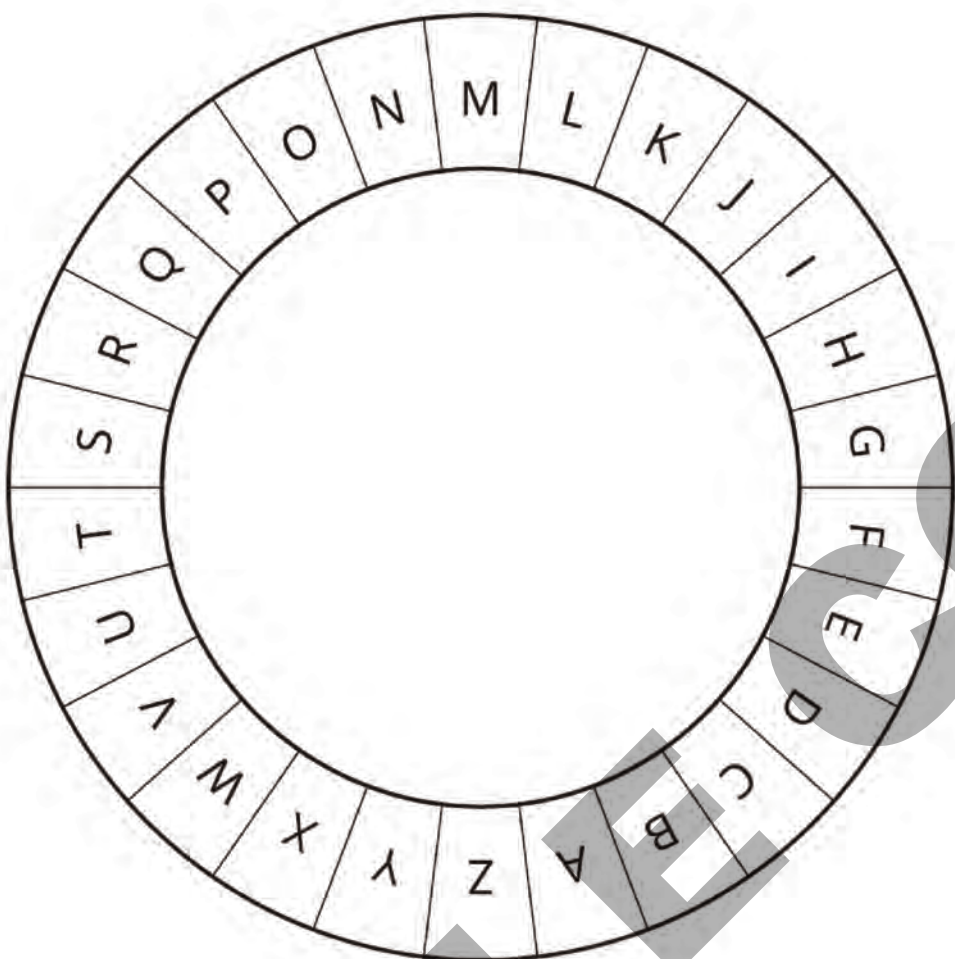
[illegible]

actual number: _____



Cipher Wheel Template

- Print out the template (cardstock recommended).
- Cut out each circle. Place the small circle on top of the large one so that they share the same center.
- Use a pin, a thumbtack, or a paper fastener, to fasten the two circles together in the center so that the small circle can spin inside the large circle. (If using a paper fastener, it may be necessary to cut out a small circle in the center.)



Info Gap: Custom Mugs

Problem Card 1

A science club would like to get some custom mugs with the club's logo on them. The number of mugs the club can buy depends on the amount of money available for the mugs and the cost for each mug. One online company offers a great discount for each mug ordered.

1. How many mugs can the club afford?
2. Write an equation that gives the number of mugs that the club can buy, n , as a function of the regular price, p .

Info Gap: Custom Mugs

Data Card 1

- The regular price for one mug is \$10.80.
- The discount is \$4.40 off for each mug.
- The club has a budget of \$120 for the mugs.
- There are no other fees or charges.

Info Gap: Custom Mugs

Problem Card 2

A teacher suggested another option for ordering the mugs at a discounted price from a local printing company. The club would be able to get more mugs with the same budget by ordering from this local business.

1. What is the regular price per mug at this company?
2. Write an equation that gives the regular price of a mug, p , if the club can afford n mugs with the same budget.

Info Gap: Custom Mugs

Data Card 2

- The discount is \$4.40 off for each mug.
- The club is able to order 24 mugs if they choose this company.
- The club has a budget of \$120 for the mugs.
- There is a set-up fee for each order, but the company decides to waive the fee for the science club.



UNIT

9

Teacher Resource Copy
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LESSON BLACKLINE MASTERS

Matching Descriptions to Graphs

Card 1

The value of a company's stock doubles approximately every 4 years.

The relationship between the number of years since purchasing the stock and the stock value.

Matching Descriptions to Graphs

Card 5

The value of a company's stock triples roughly every 8 years.

The relationship between the number of years since purchasing the stock and the stock value.

Matching Descriptions to Graphs

Card 2

A car loses $\frac{1}{4}$ of its value every year after purchase.

The relationship between the number of years since purchasing the car and the value of the car.

Matching Descriptions to Graphs

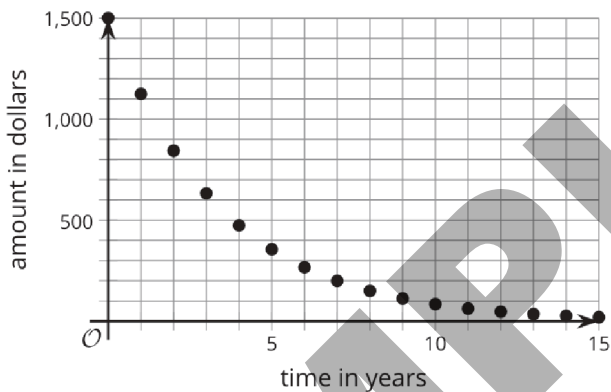
Card 6

A laptop loses $\frac{2}{5}$ of its value every year after purchase.

The relationship between the number of years since purchasing the laptop and the value of the laptop.

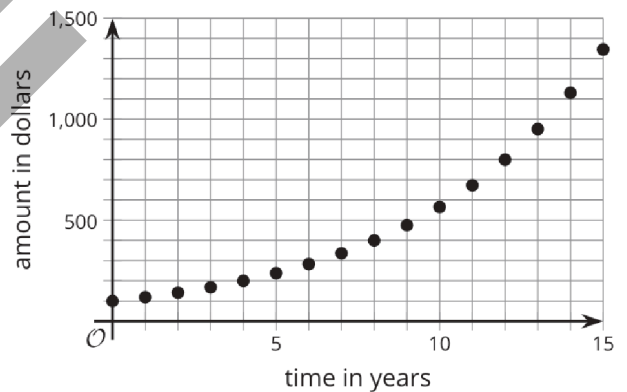
Matching Descriptions to Graphs

Card 3



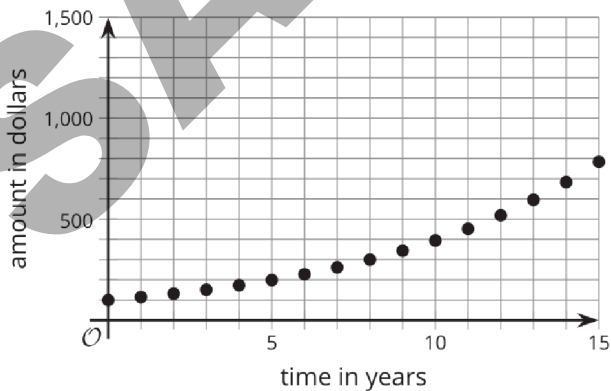
Matching Descriptions to Graphs

Card 7



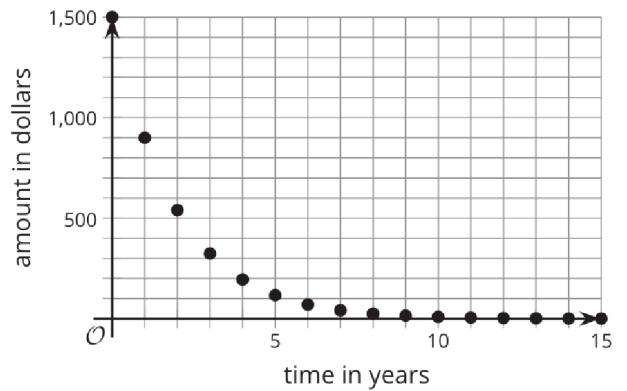
Matching Descriptions to Graphs

Card 4



Matching Descriptions to Graphs

Card 8



Info Gap: Smartphone Sales

Problem Card 1

From 2008 to 2011, worldwide sales of a popular smartphone brand can be modeled with an exponential function. In 2009, about 20.73 million of the smartphone brand were sold.

If the sales continued to grow exponentially, about how many of the smartphone brand were sold in 2012?

Info Gap: Smartphone Sales

Data Card 1

- In 2008, about 11.63 million of the smartphone brand were sold.
- In 2010, about 39.99 million of the smartphone brand were sold.

Info Gap: Smartphone Sales

Problem Card 2

From 2008 to 2011, worldwide sales of a popular smartphone brand can be modeled with an exponential function.

In which year did the number of that smartphone brand sold exceed 200 million?

Info Gap: Smartphone Sales

Data Card 2

- Sales of the smartphone brand continued to grow exponentially beyond 2011.
- In 2010, approximately 39.99 million of the smartphone brand were sold worldwide.
- In 2011, approximately 72.29 million of the smartphone brand were sold worldwide.