## H California



### GRADE 3

Teacher Resource Copy Masters

**UNITS 5-6** 



**Kendall Hunt** 

Book 3
Certified by Illustrative Mathematics®

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UNIT

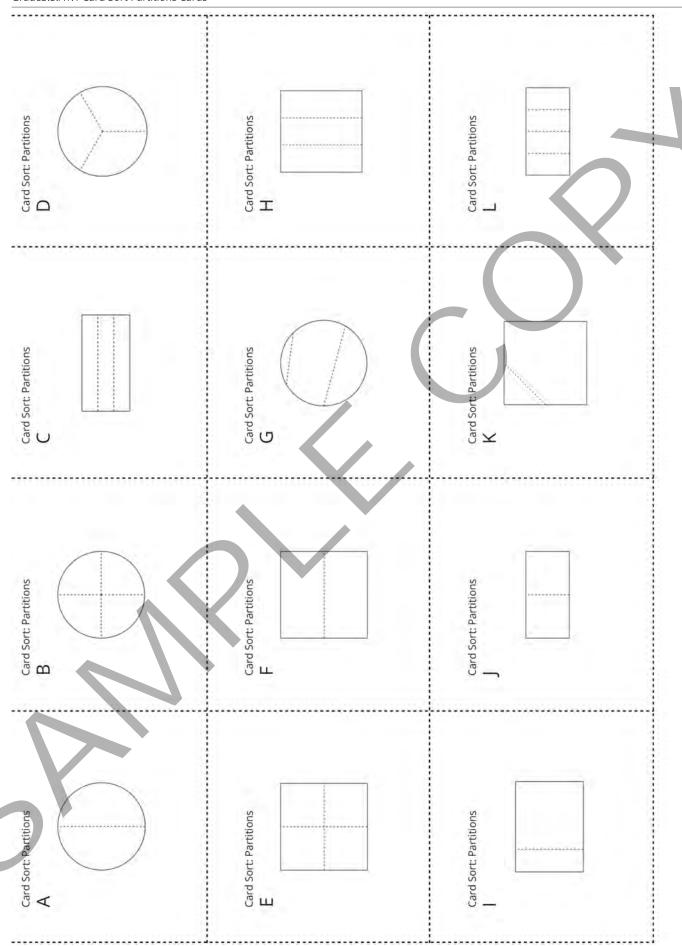
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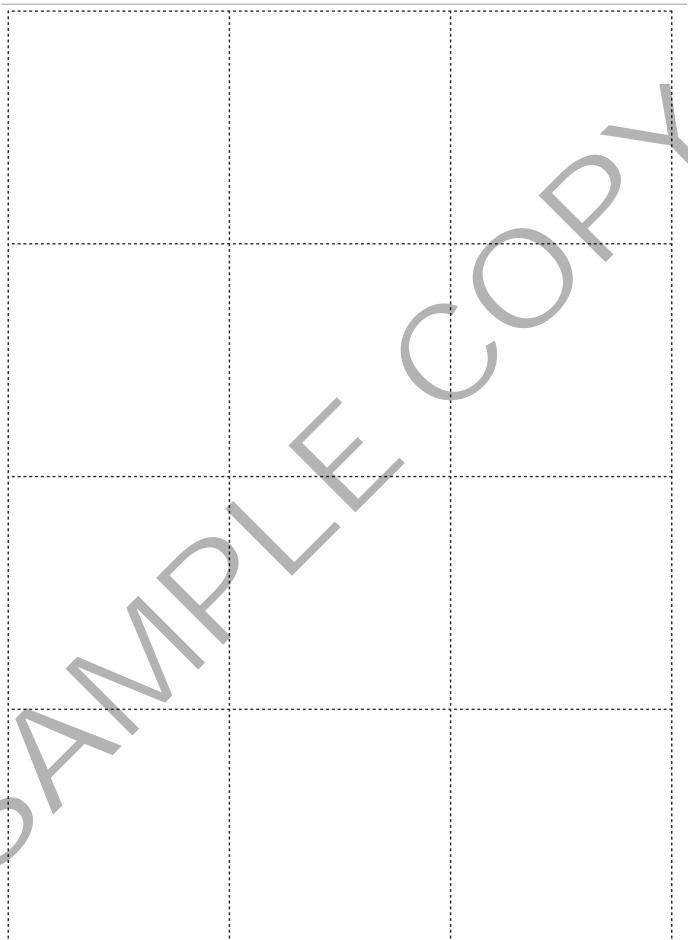
## Teacher Resource Copy Masters

LESSON BLACKLINE MASTERS

Activity Grade3.5.5.2	Activity Grade3.5.5.1	Activity Grade3.5.4.1	Activity Grade3.5.4.1	Activity Grade3.5.3.2	Activity Grade3.5.2.1	Activity Grade3.5.1.2	Activity Grade3.5.1.1	address
Fold and Label the Number Line Handout	Card Sort Number Lines Cards	Secret Fraction Stage 1 Cards	Secret Fraction Stage 1 Directions	Card Sort Fraction Match Cards	Partition the Strips Template	Fold and Name Handout	Card Sort Partitions Cards	title
_,	2	2	2	2	2	4	2	students per copy
yes	no	no	yes	no	yes	yes	no	written on?
yes	yes	yes	no	yes	yes	yes	yes	requires cutting?
no	no	no	no	no	no	no	no	card stock recommended?
no	a o	no	no	no	no	no	no	color paper recommended?
no	no	yes	no	no	no	no	no	used multiple times?
no	no	yes	yes	no	no	no	no	used as a center material?

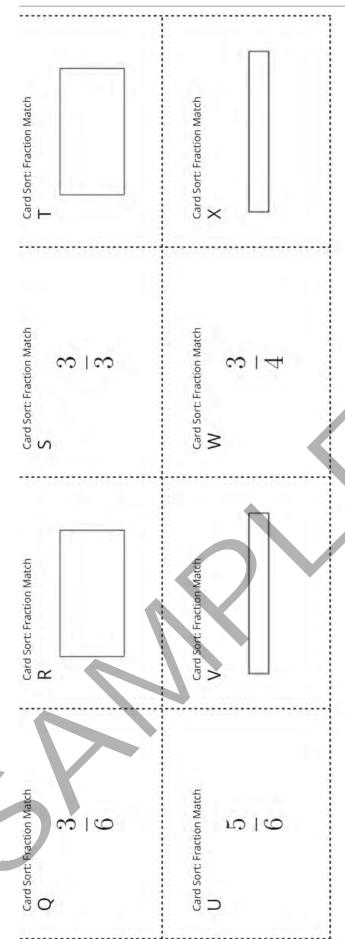
Grade3.5.15.2 Denominator  Recording Sheet	Spin to Win Same	Activity Grade3.5.15.2 Spin to Win Same Denominator Spinner	Activity Number Line Scoot Grade3.5.7.1 Stage 2 Directions	Activity Grade3.5.7.1  Activity Stage 2 Stage 2 Gameboard	address title
0	2	2	2	2	students per copy
yes	yes	no	no	no	written on?
no	no	no	yes	no	requires cutting?
no	no	no	no	no	card stock recommended?
VPS	no	no	no	no	color paper recommended?
no	no	yes	no	yes	used multiple times?
no	yes	yes	yes	yes	used as a center material?





1 whole
1 whole

Card Sort: Fraction Match  D	Card Sort: Fraction Match H	Card Sort: Fraction Match	Card Sort: Fraction Match
Card Sort: Fraction Match C	G Sort: Fraction Match	Card Sort: Fraction Match	Card Sort: Fraction Match O
Card Sort: Fraction Match $\frac{A}{6}$	Card Sore: Fraction Match $\frac{5}{8}$	Card Sort: Fraction Match $\frac{7}{8}$	Card Sort: Fraction Match ${\color{black}N}$
Card Sort: Fraction Match $A$	Card Sort: Fraction Match $\frac{2}{3}$	Card Sort: Fraction Match $\frac{2}{4}$	Card Sort: Fraction Match $\frac{2}{6}$



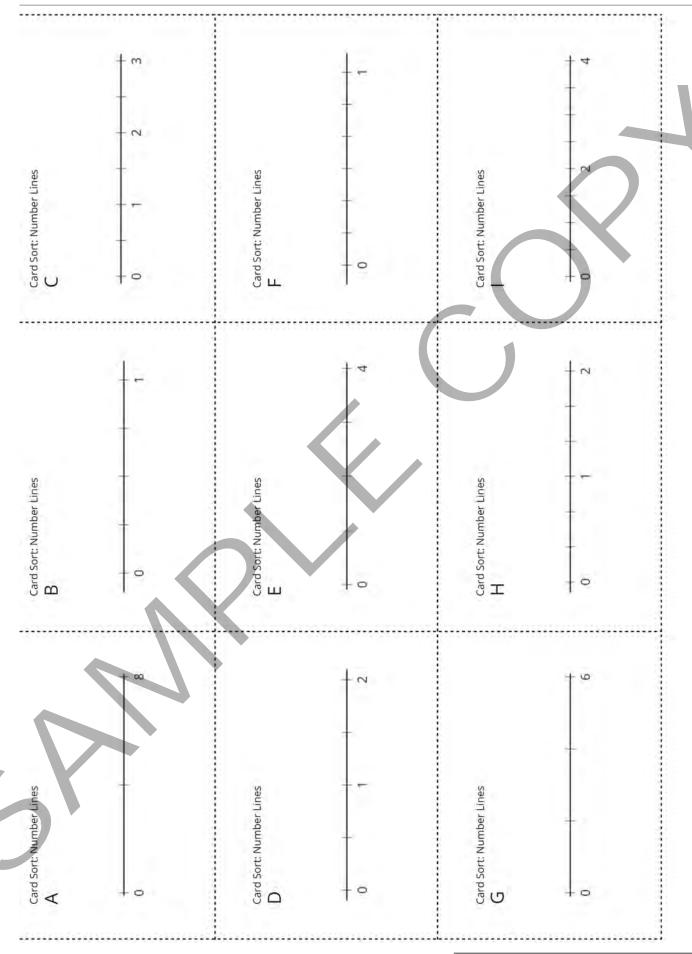
### Directions:

- Place the secret fraction cards facedown in a stack.
- Place the unit fraction cards facedown in a stack.
- Each partner:
  - Pick 3 secret fraction cards without showing your partner. You are trying to make these secret fractions using your unit fractions.
  - Pick 5 unit fraction cards and hold them in your hands without showing your partner.
- Partner A (choose an option):
  - Ask your partner if they are holding a unit fraction card that you need.
  - Trade 1 of your secret fractions for the secret fraction card at the top of the stack.
- Partner B:
  - o If you have the unit fraction your partner asked for, give it to your partner. If you have more than 1, only give your partner 1.
  - If you do not have the unit fraction that was asked for, tell your partner to pick a card from the top of the unit fraction stack and keep it in their hand.
- If you have enough unit fractions to make one of your secret fractions, show the secret
  fraction. Explain how you made that fraction. You can use the diagram at the bottom
  of the page to help you explain your thinking. Then set all the used unit fraction cards
  aside.
- Switch roles and repeat.
- The first partner to make all 3 secret fractions wins.
- If you run out of unit fraction cards, mix up the used unit fractions and place them facedown in a stack.

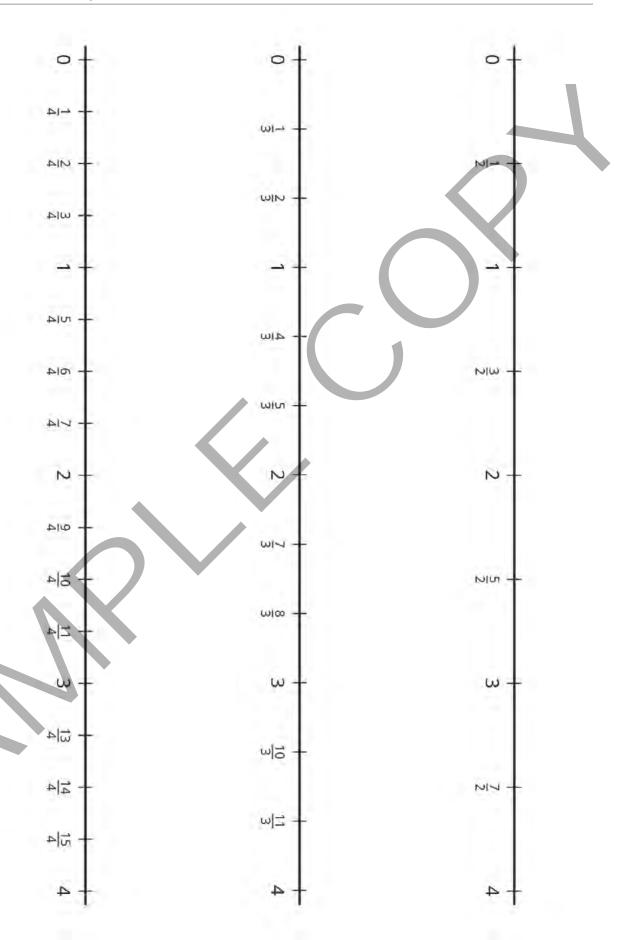
				1	who	le				
		$\frac{1}{2}$			-1			1 2		
	1 3		- \$		1 3		0		1/3	
1/4		1		1/4			1/4	-8		1/4
$\frac{1}{6}$	3	<u>1</u>	- 3	<u>1</u>		<u>1</u>		1 6	- 1	<u>1</u>
1/8 :	1/8	1	1 8	1 1 8	-1-	<del>1</del> 8	1 1 8	10	1/8	1 1/8

,			
Unit Fraction	Unit Fraction	Unit Fraction	Unit Fraction
1	1	1	1
$\overline{2}$	$\overline{2}$	$\overline{3}$	$\overline{3}$
<b>–</b>	<u></u>	9	
Unit Fraction	Unit Fraction	Unit Fraction	Unit Fraction
1	1	1	<b>)</b> 1
$\frac{-}{3}$	$\frac{-}{4}$	4	$\frac{1}{4}$
	1		1
Unit Fraction	Unit Fraction	Unit Fraction	Unit Fraction
1	1	1	1
$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
4		U	U
Unit Fraction	Unit Fraction	Unit Fraction	Unit Fraction
1	1	1	1
	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{8}$
	U	U	O
Unit Fraction	Unit Fraction	Unit Fraction	Unit Fraction
1	1	1	1
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
ð	ð	ð	ð
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Unit Fraction	Unit Fraction	Unit Fraction <b>1</b>	Unit Fraction
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1
8	8	8	8
Secret Fraction	Secret Fraction	Secret Fraction	Secret Fraction
$\frac{2}{2}$	$\frac{2}{3}$	3	$\frac{2}{2}$
2	3	3	4
Secret Fraction	Secret Fraction	Secret Fraction	Secret Fraction
3	4	2	4
$\overline{4}$	$\overline{4}$	6	6
Secret Fraction	Secret Fraction	Secret Fraction	Secret Fraction
5	$\frac{2}{8}$	$\frac{3}{8}$	$\frac{5}{8}$
6	8	8	8



0	1
0	1
0	1
0	1
0	
0	1
0	1
Ö	1

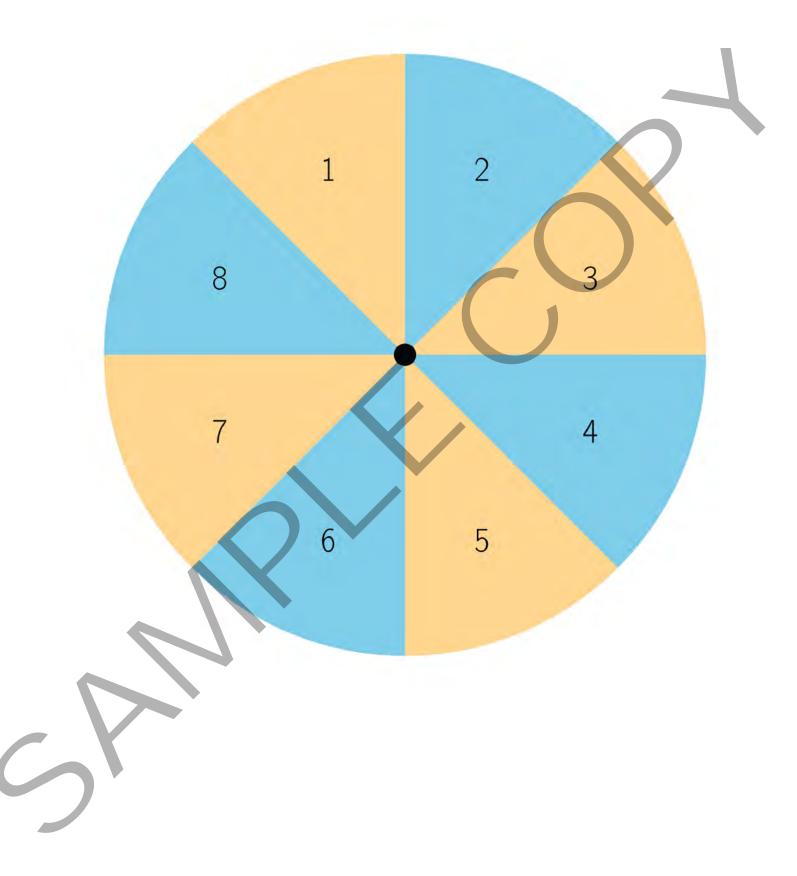


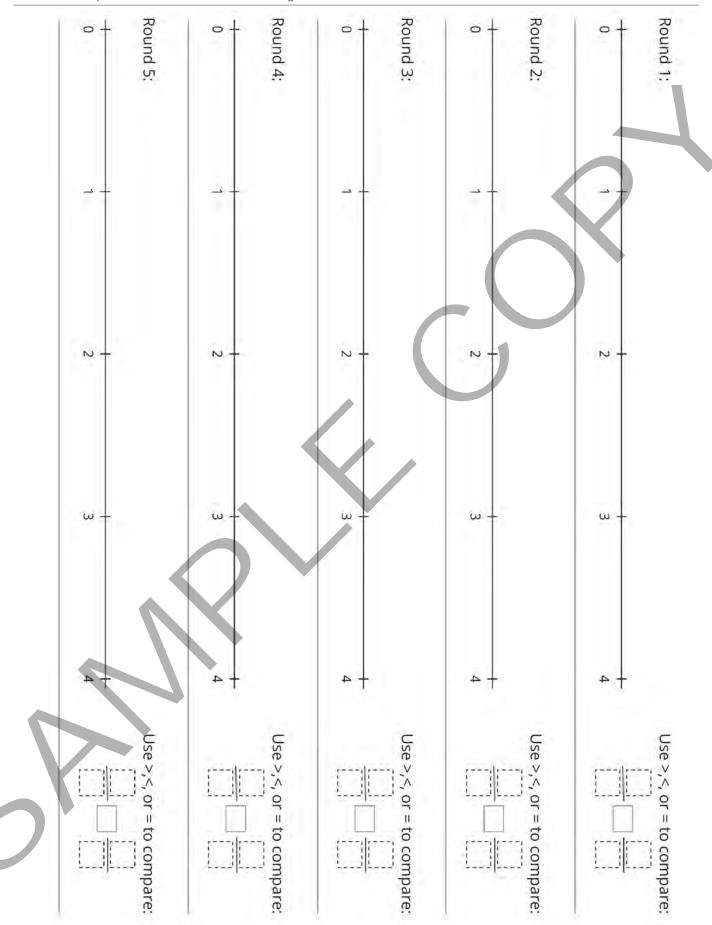
### Directions:

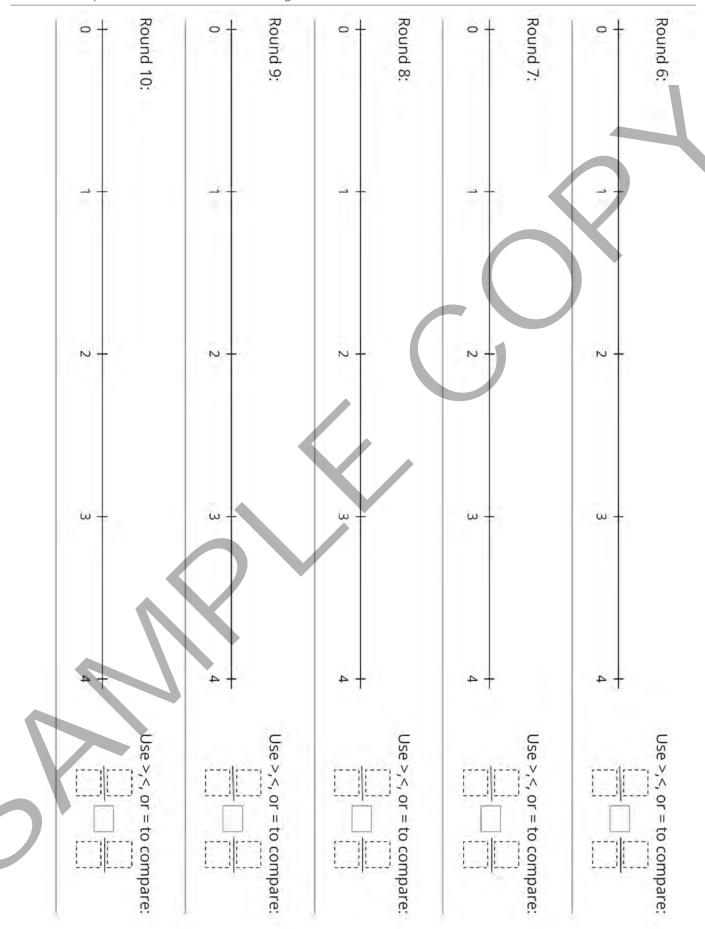
- Place a small cube on zero on each number line.
- On your turn:
  - Roll a number cube.
  - The number you rolled is the numerator of your fraction. Choose whether you want to use 2, 3, or 4 as the denominator for your fraction.
    - Count aloud as you move a cube that distance on the appropriate number line.
- Take turns rolling and moving one cube.
- If a cube lands *exactly* on the last tick mark of a number line, that partner keeps the cube and puts a new one at 0.
- The first player to collect 5 cubes wins.

### Directions:

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  - The number you rolled is the numerator of your fraction. Choose whether you want to use 2, 3, or 4 as the denominator for your fraction.
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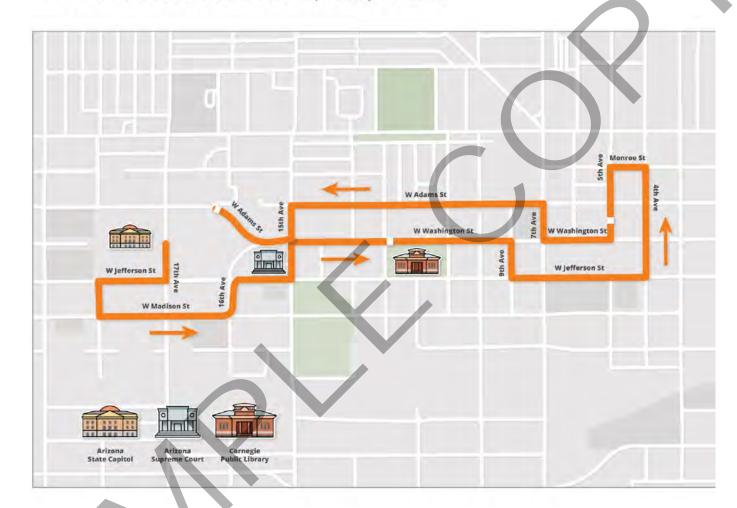


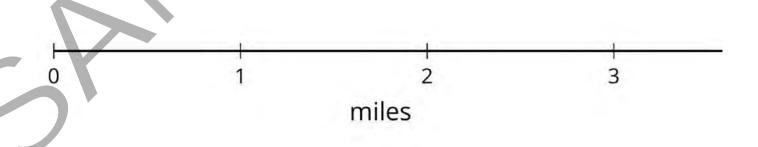


### Map 1: Phoenix, Arizona

### Information about the race:

- It's going to be hot! There's some shade on the course, but not much.
- It's a very flat course.
- The race needs to be fun, especially for kids.

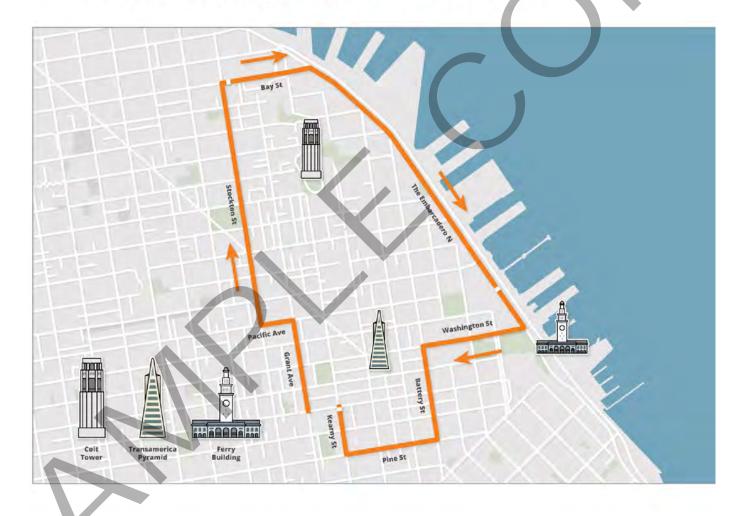


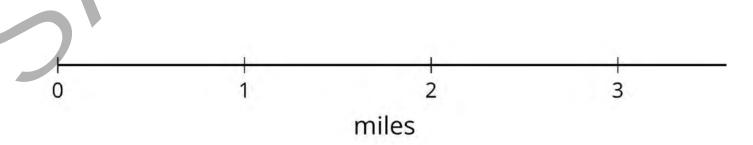


### Map 2: San Francisco, California

### Information about the race:

- Not too hot, might be a little chilly when the race starts.
- It's hilly (up and down) until about  $\frac{3}{4}$  mile after the start, then you go downhill until the first mile marker. At  $\frac{9}{4}$  miles after the start, the course becomes hilly again until the 3-mile marker.
- The race is mostly for grown-ups, but some kids do join.



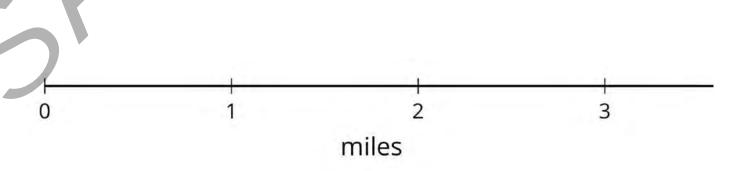


### Map 3: Baltimore, Maryland

### Information about the race:

- It usually rains during the race.
- The course is a little hilly. The course stays close to the water and even crosses over it a few times during the first 2 miles of the race.
- The race needs to be fun for people of any age.







UNIT

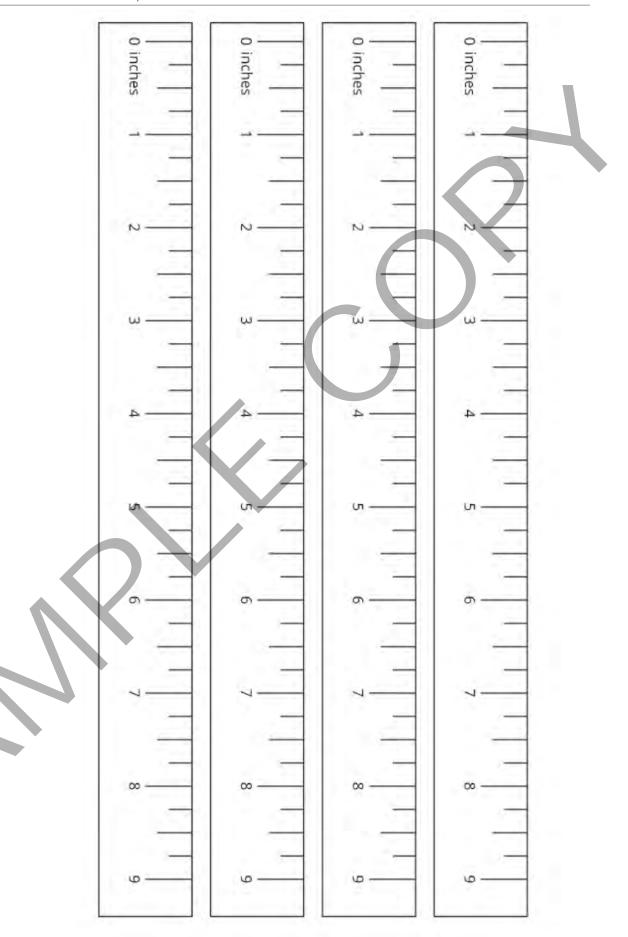
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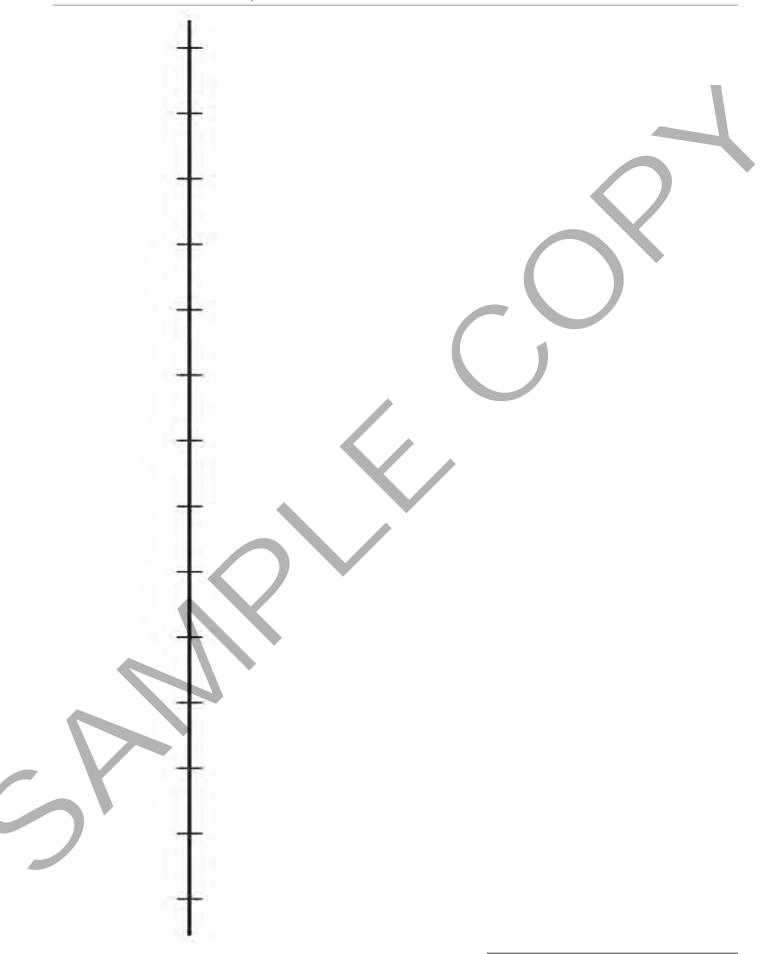
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LESSON BLACKLINE MASTERS

Activity Grade3.6.13.2	Activity Grade3.6.13.1	Activity Grade3.6.12.2	Activity Grade3.6.5.2	Activity Grade3.6.3.WU	Activity Grade3.6.1.1	address
Info Gap Pig Weigh-Off Cards	Info Gap Pumpkin Weigh- Off Cards	Card Sort Giant Pumpkins Cards	Let's Make a Line Plot Template	Notice and Wonder Rulers Template	Measure around the Room Template	title
2	2	2	2	*	М	students per copy
no	no	no	yes	по	yes	written on?
yes	yes	yes	no	yes	yes	requires cutting?
no	no	по	no	yes	yes	card stock recommended?
ño	no	no	no	no	no	color paper recommended?
no	no	no	no	yes	yes	used multiple times?
no	no	no	no	no	no	used as a center material?

| 0 inches |
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| O)       | 6        | ō ———    | σ        | ō ———    |
|          | 7        | 7        | 7        | 7        |
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| ٠        | 9 ——     | 9        | 9 ——     | 9 ——     |





Card Sort: Giant Pumpkins Card Sort: Giant Pumpkins Giant pumpkins grow from seedlings. 337 A farmer used 84 liters to water their seedlings, with 12 liters for each. How many seedlings were there? Card Sort: Giant Pumpkins Card Sort: Giant Pumpkins D One farmer says he used 337 liters each day to water his giant pumpkin. Another farmer used 84 liters less each day. How much water did the other farmer use each day? Card Sort: Giant Pumpkins Card Sort: Giant Pumpkins Each day, a farmer uses 337 liters to water pumpkins and 84 liters to water watermelons. How much water does the farmer use all together each day? 84 Card Sort: Giant Pumpkins Card Sort: Giant Pumpkins Н A giant pumpkin gained about 12 kilograms each day for 7 days. How much weight did the pumpkin gain during that week? 337

Problem Card 1

A fair is holding a pumpkin weigh-off. The farmer who grew the winning pumpkin says during some days in August, his pumpkin gained a lot of weight each day.

How much did the weight of the pumpkin increase during this time?

Info Gap: Pumpkin Weigh-Off
Data Card 1

- The pumpkin's weight increased 13 kilograms each day during these days in August.
- There were 5 days in August when the pumpkin gained this much weight each day.

Problem Card 2

Another farmer said, "There were some days in August when my pumpkin's weight increased by a lot each day too!"

How much did the weight of the pumpkin increase each day during this time?

Info Gap: Pumpkin Weigh-Off
Data Card 2

- The pumpkin's weight increased 72 kilograms during this time.
- There were 6 days in August that the pumpkin's weight increased a lot each day.

# Problem Card 1

Lin stopped at the pig weigh-off. The winning pig's owner said, "This pig gained a lot of weight between the time I decided to show him at the fair and today's weigh-off."

How much weight did the pig gain?

## Info Gap: Pig Weigh-Off Data Card 1

- The pig weighed 36 kilograms when his owner decided to show at the fair.
- At the fair weigh-off, the pig weighed 120 kilograms.

# Problem Card 2

Lin met another pig's owner at the weigh-off. That pig's owner said, "This pig weighed a lot less when I decided to show him at the fair."

How much did the pig weigh before gaining weight for the fair?

## Info Gap: Pig Weigh-Off Data Card 2

- The pig gained 67 kilograms between the time the owner decided to show him and the weigh-off at the fair.
- At the fair weigh-off, the pig weighed 116 kilograms.