# Are you ready to **ŽEARN**?

Mission 6

### The Coordinate Plane

Name:

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Fourth Edition

Name:	

#### Weekly Goal Tracker

Week of:	My goal is to earn badges for lessons:	Teacher Signature:
Week of:	My goal is to earn badges for lessons:	Teacher Signature:
Week of:	My goal is to earn badges for lessons:	Teacher Signature:
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#### Mission 6: Workbook Checklist

1. Cool Coordinates	Date:	Teacher Signature:	
Learning Lab:		O Exit Ticket	
2. Coordinate Pairs	Date:	Teacher Signature:	
Math Chat:	O Notes	O Exit Ticket	
3. Star Coordinates	Date:	Teacher Signature:	
Math Chat:	O Notes	O Exit Ticket	
5. Lining Up	Date:	Teacher Signature:	
Learning Lab:		O Exit Ticket	
6. Coordinate Plane Puzz	les Date:	Teacher Signature:	
Math Chat:	O Notes	O Exit Ticket	
7. That's the Point	Date:	Teacher Signature:	
Math Chat:	O Notes	O Exit Ticket	
8. Plot the Rule	Date:	Teacher Signature:	
Learning Lab:		O Exit Ticket	
9. Lasers on a Plane	Date:	Teacher Signature:	
Math Chat:	O Notes	O Exit Ticket	
10. Lines with Sparkle	Date:	Teacher Signature:	
Math Chat:	O Notes	O Exit Ticket	
14. Pairs and Parallels	Date:	Teacher Signature:	
Math Chat:	O Notes	O Exit Ticket	

15. Perpendicular Pals		Date:	Teacher Signature:
Learning Lab:			O Exit Ticket
18. Stellar Symmetry		Date:	Teacher Signature:
Learning Lab:			O Exit Ticket
19. Line Graph Greatness		Date:	Teacher Signature:
Math Chat:			O Exit Ticket
20. Line Graphs Return		Date:	Teacher Signature:
Math Chat:	O No	otes	O Exit Ticket
21. Perplexing Problems: F	Part 1	Date:	Teacher Signature:
Z-Squad:	O No	otes	
22. Perplexing Problems: I	Part 2	Date:	Teacher Signature:
Z-Squad:	O No	otes	
23. Perplexing Problems: I	Part 3	Date:	Teacher Signature:
Z-Squad:	O No	otes	
24. Perplexing Problems:	Part 4	Date:	Teacher Signature:
Z-Squad:	O No	otes	
26. Far out Expressions		Date:	Teacher Signature:
Learning Lab:			O Reflection
27. Word Problem Wheel		Date:	Teacher Signature:
Learning Lab:			O Reflection
28. Fluency Round Up		Date:	Teacher Signature:
Math Chat:	O No	otes	O Reflection

Note: There are no Exit Tickets for Lessons 21, 22, 23, and 24.

29. Geometry Carnival	Date:	Teacher Signature:
Learning Lab:		O Reflection
30. Geometry Carnival Returns	Date:	Teacher Signature:
Learning Lab:		O Reflection
Learning Lab:  32. Zearnland Savings	Date:	O Reflection  Teacher Signature:

Lesson 1 G:5 M:6

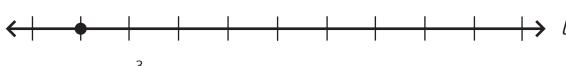
#### **EXIT TICKET**

Name:\_\_\_\_\_\_ Date:\_\_\_\_\_

Complete: Class:\_\_\_\_\_

1. Use number line l to answer the questions.

D



 $1\frac{3}{5}$ 

- a. Plot point  ${\it C}$  so that its distance from the origin is 1.
- **b.** Plot point  $E \frac{4}{5}$  closer to the origin than C. What is its coordinate?
- c. Plot a point at the midpoint of C and E. Label it H.

Lesson 2 G:5 M:6

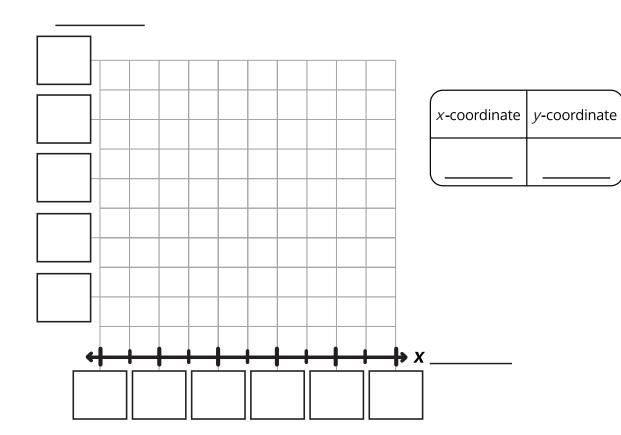
#### **Coordinate Pairs**

#### **ZEARN STUDENT NOTES**

Name:	Date:
Complete:	Class:

You will need a ruler or straight edge for this lesson.

We'll plot point *A* and set up the coordinate plane. Then we'll plot point *B*.



2

Plot point C at (3, 4), in the above coordinate plane.



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Lesson 2 G:5 M:6

#### **EXIT TICKET**

Name:	Date:
Complete:	Class:

1. Name the coordinates of the shapes below.

		Sha	pe	X	-coo	rdin	ate	<i>y</i> -co	oord	inate
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- **2.** Plot a square at ( 3 ,  $3\frac{1}{2}$  ).
- 3. Plot a triangle at ( $4\frac{1}{2}$ , 1).



Lesson 3 G:5 M:6

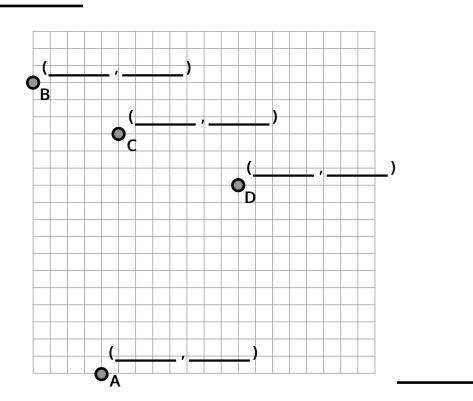
#### **Star Coordinates**

#### **ZEARN STUDENT NOTES**

Name:	Date:	
Complete:	Class:	

You will need a ruler or straight edge for this lesson.

Set up the coordinate plane. Write the coordinate pairs for points *A*, *B*, *C*, and *D*.



Plot point E at  $(4, 2\frac{3}{4})$  in the above coordinate plane.



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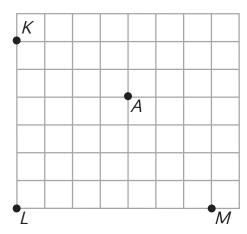


## Lesson 3 G:5 M:6

#### **EXIT TICKET**

Name:	Date:	
Complete:	Class:	

1. Use a ruler on the grid below to construct the axes for a coordinate plane. The *x*-axis should intersect points *L* and *M*. Construct the *y*-axis so that it contains points *K* and *L*. Label each axis.



- a. Place a hash mark on each grid line on the x- and y-axis.
- **b.** Label each hash mark so that A is located at (1,1).
- c. Plot the following points:

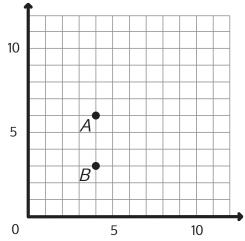
Point	<i>x</i> -coordinate	<i>y</i> -coordinate
В	1/4	0
С	1 1/4	3 4



Lesson 5 G:5 M:6

#### **EXIT TICKET**

Name:	Date:	
Complete:	Class	



- 1. Use a straight edge to construct a line that goes through points *A* and *B*. Label the line *l*.
- 2. Which axis is parallel to line *l*? \_\_\_\_\_\_ Which axis is perpendicular to line *l*? \_\_\_\_\_\_
- 3. Plot two more points on line *l*. Name them *C* and *D*.
- 4. Give the coordinates of each point below

C: \_\_\_\_\_ D: \_\_\_\_

**5.** Give the coordinates of another point that falls on line *l* with a *y*-coordinate greater than 20. \_\_\_\_\_



#### Lesson 6 G:5 M:6

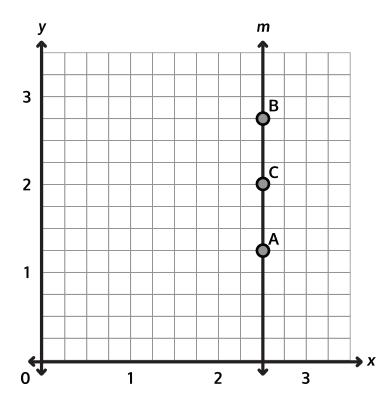
#### **Coordinate Plane Puzzles**

#### **ZEARN STUDENT NOTES**

Name:	Date:	
Complete:	Class:	

You will need a ruler or straight edge for this lesson.

Plot and label points and lines on the coordinate plane.



Point	Х	У	(x,y)
А	$2\frac{1}{2}$	1 1 4	
В			
С			

Point	X	У	(x,y)
D			
Е			
F			



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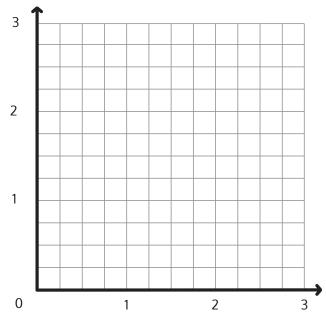


#### Lesson 6 G:5 M:6

#### **EXIT TICKET**

Name:	Date:	
Complete:	Class:	

You'll need two colored pencils for this exit ticket.



- **1.** Plot the point  $H(2\frac{1}{2}, 1\frac{1}{2})$ .
- **2.** Line *l* passes through point *H* and is parallel to the *y*-axis. Construct line *l*.
- 3. Construct line m such that the y-coordinate of every point is  $\frac{3}{4}$ .
- **4**. Line *m* is \_\_\_\_\_ units from the *x*-axis.
- **5.** Give the coordinates of the point on line m that is  $\frac{1}{2}$  unit from the y-axis.



- **6.** With one colored pencil, shade the portion of the plane that is less than  $\frac{3}{4}$  unit from the *x*-axis.
- 7. With another colored pencil, shade the portion of the plane that is less than  $2\frac{1}{2}$  units from the *y*-axis.
- **8.** Plot a point that lies in the double shaded region. Give the coordinates of the point.



Lesson 7 G:5 M:6

#### That's the Point

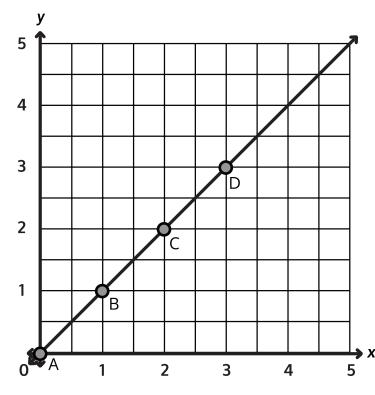
#### **ZEARN STUDENT NOTES**

Name:	Date:
Complete:	Class:

You will need a ruler or straight edge for this lesson.

Plot the points on the coordinate plane.

Then, write a rule to describe any point on the line.



Point	(x,y)	
G	(0,3)	
Н	$(\frac{1}{2}, 3\frac{1}{2})$	
I	(1,4)	
J	$(1\frac{1}{2}, 4\frac{1}{2})$	
К	(,)	

Rule:



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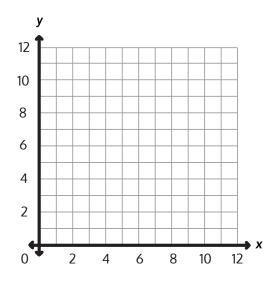
## Lesson 7 G:5 M:6

#### **EXIT TICKET**

Name:	Date:	
Complete:	Class:	

Complete the chart. Then, plot the points on the coordinate plane.

X	У	(x,y)
0	4	
2	6	
3	7	
7	11	



- 1. Use a straight edge to draw a line connecting these points.
- 2. Write a rule to show the relationship between the *x* and *y*-coordinates for points on the line.

,<del>------</del>

3. Name two other points that are also on this line.

<del>------</del>



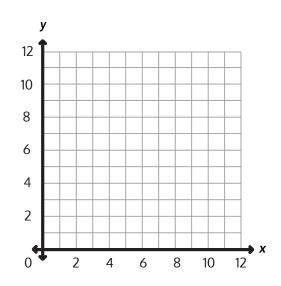
Lesson 8 G:5 M:6

#### **EXIT TICKET**

Name:	_ Date:
Complete:	Class:

- 1. Complete this table with values for *y* such that each *y*-coordinate is 5 more than 2 times as much as its corresponding *x*-coordinate.
  - a. Plot each point on the coordinate plane.
  - **b.** Use a straight edge to draw a line connecting these points.
  - **c.** Name 2 other points that fall on this line with *y*-coordinates greater than 25.

X	У	(x,y)
0		
2		
3.5		





Lesson 9 G:5 M:6

#### Lasers on a Plane

#### **ZEARN STUDENT NOTES**

Name:	Date:
Complete:	Class:

You will need a ruler or straight edge for this lesson.

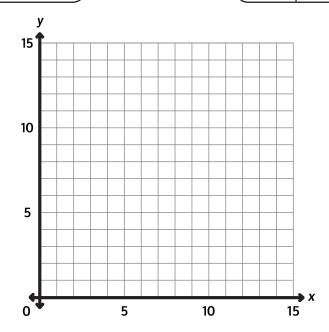
Complete the table with coordinates that follow each line's rule. Then, plot each line on the coordinate plane.

Line pRule: y is x times 2

X	У	(x,y)
0		
2		
4		

Line qRule: y is x times 3

X	У	(x,y)
0		
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4		





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#### Lesson 9 G:5 M:6

#### **EXIT TICKET**

Name:	Date:
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1. Complete the table for the given rules.

Then, construct lines l and m on the coordinate plane.

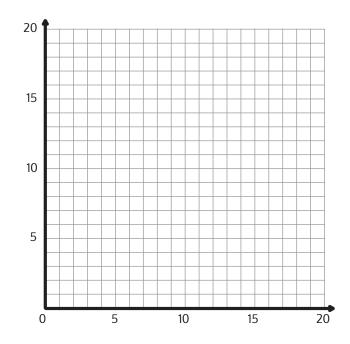
Line *l*Rule: y is 5 more than x

X	У	(x,y)
0		
1		
2		
4		

Line *m* 

Rule: y is 5 times as much as x

X	У	(x,y)
0		
1		
2		
4		





#### Lesson 10 G:5 M:6

#### **Lines with Sparkle**

#### **ZEARN STUDENT NOTES**

Name:	Date:	
Complete:	Class:	

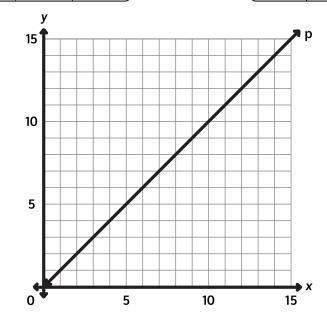
You will need a ruler or straight edge for this lesson.

Plot points to draw each line. Then, write a rule for each line to describe its coordinates.

	Line <i>g</i>		Line <i>h</i>
Rule:		Rule:	

( x	У	(x,y)
1		
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X	У	(x,y)
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6		
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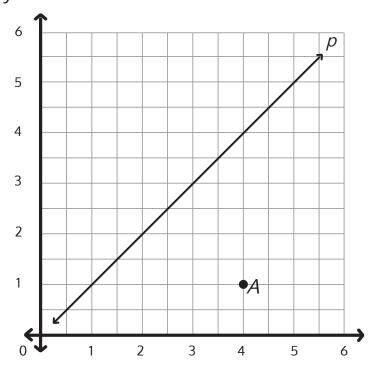


#### Lesson 10 G:5 M:6

# **EXIT TICKET**

Name:	Date:
Complete:	Class:

- 1. Use the coordinate plane below to complete the following tasks.
  - a. Line *p* represents the rule x *and* y *are equal*.
  - **b.** Construct a line, *a*, that is parallel to line *p* and contains point *A*.
  - c. Name 3 points on line a.
  - **d.** Identify a rule to describe line *a*.





Lesson 14 G:5 M:6

#### **Pairs and Parallels**

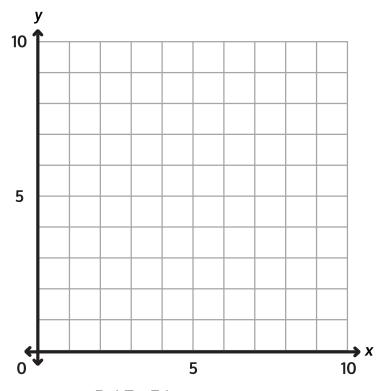
# **ZEARN STUDENT NOTES**

Name:	Date:
Complete:	Class:

You will need scissors and a ruler or straight edge for this lesson.

1

Use the triangle to draw parallel lines.



A: (2,3)

*B*: (7,5)

>6

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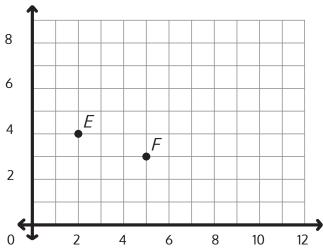
Lesson 14 G:5 M:6

# **EXIT TICKET**

Name:\_\_\_\_\_ Date:\_\_\_\_

Complete: Class:\_\_\_\_\_

1. Use the coordinate plane below to complete the following tasks.



**a.** Identify the locations of *E* and *F*.

*E*:(\_\_\_\_,\_\_) *F*:(\_\_\_\_,\_\_)

- **b.** Draw *EF*.
- c. Generate coordinate pairs for L and M, such that  $\overrightarrow{EF} \mid \mid \overrightarrow{LM}$ .

L:(\_\_\_\_,\_\_) M:(\_\_\_\_,\_\_)

**d.** Draw LM.

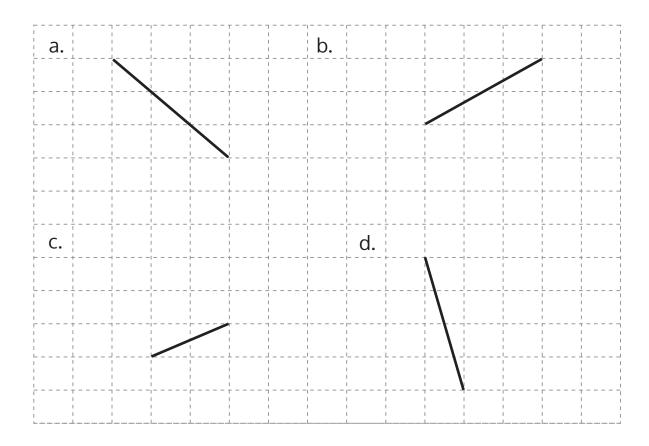


Lesson 15 G:5 M:6

# **EXIT TICKET**

Name:	Date:
Complete:	Class:

1. Draw a segment perpendicular to each given segment. Show your thinking by sketching triangles as needed.





Lesson 18 G:5 M:6

# **EXIT TICKET**

Name:	Date:
Complete:	Class:

1. Kenny plotted the following pairs of points and said they made a symmetric figure about a line with the rule: y *is always 4*.

```
(3,2) and (3,6)

(4,3) and (5,5)

(5,\frac{3}{4}) and (5,7\frac{1}{4})

(7,1\frac{1}{2}) and (7,6\frac{1}{2})
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Is his figure symmetrical about the line? How do you know?

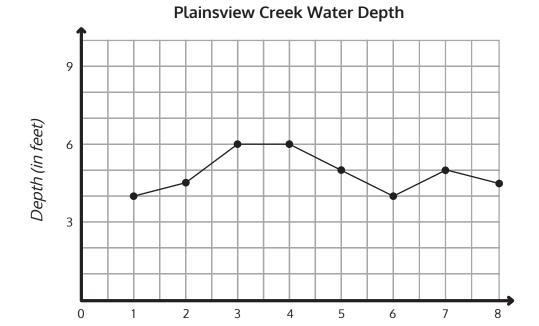


Lesson 19 G:5 M:6

# **EXIT TICKET**

Name:	Date:
Complete:	Class:

1. The line graph below tracks the water level of Plainsview Creek, measured each Sunday, for 8 weeks. Use the information in the graph to answer the questions that follow.



a. About how many feet deep was the creek in Week 1? \_\_\_\_\_

Weeks

**b.** According to the graph, which week had the greatest change in water depth? \_\_\_\_\_



c. It rained hard throughout the sixth week. During what other weeks might it have rained? Explain why you think so.

**d.** What might have been another cause leading to an increase in the depth of the creek?



#### Lesson 20 G:5 M:6

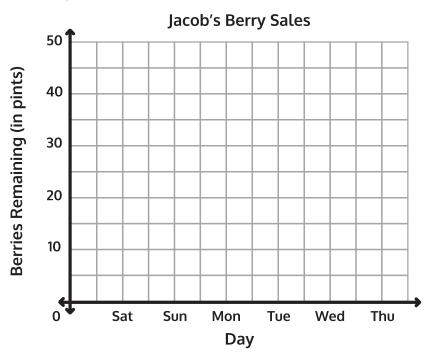
# **Line Graphs Return**

#### **ZEARN STUDENT NOTES**

Name:	Date:
Complete:	Class:

Use the following information to complete the line graph below. Record the number of berries that remain unsold at the end of each day.

Jacob sells berries at a fruit stand. When Jacob arrived at his fruit stand on Saturday, he had 57 pints of berries to sell. By end of day Saturday, he had 50 pints of berries remaining. By the end of the day on Sunday, he had 45 pints remaining. By end of day Monday, he had 35 pints left. By end of day Tuesday, Jacob had 25 pints remaining. By end of day Wednesday, he had 10 pints remaining. When he closed his stand on Thursday, there were 5 pints left.



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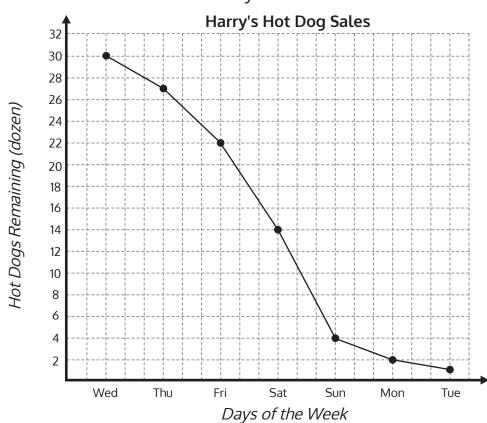
Lesson 20 G:5 M:6

#### **EXIT TICKET**

Name:	Date:
Complete:	Class:

1. Use the following information to complete the line graph below. Then, answer the questions that follow.

Harry runs a hot dog stand at the county fair. When he arrived on Wednesday, he had 38 dozen hot dogs for his stand. The graph shows the number of hot dogs (in dozens) that remained unsold at the end of each day of sales.



a. How many dozen hot dogs did Harry sell on Wednesday? How do you know?

**b.** Between which two-day period did the number of hot dogs sold change the most? Explain how you determined your answer.

c. During which three days did Harry sell the most hot dogs?

d. How many dozen hot dogs were sold on these three days?



# Lesson 21 G:5 M:6

# Perplexing Problems: Part 1

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	I a square piece of paper Each rectangle had a peri	•
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Square's Side	Square's Area	Rectangle's Area

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# Lesson 22 G:5 M:6

# Perplexing Problems: Part 2

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Complete:	Class:
hat. After her purchas	I. She bought a glove, cleats, and a es, she still had \$39.50. The glove he cleats, and the hat was one-sixth
What was the cost of each ite cost than the hat?	em? How much more did the cleats
	DRAW

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# Lesson 23 G:5 M:6

# Perplexing Problems: Part 3

Name:	Date:
Complete:	Class:
pumpkins and three so	wo squash weigh 27.5 pounds. Four quash weigh 37.5 pounds. Each the other pumpkins, and each e other squash.
How much does each pumpki squash weigh?	n weigh? How much does each
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# Lesson 24 G:5 M:6

# Perplexing Problems: Part 4

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	s the greatest number 2.50 for food?	of rides Mr. Saw	vicki can go on if he
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Lesson 26 G:5 M:6

# **REFLECTION**

Name:	Date:
Complete:	Class:

How did the games we played today prepare you to practice writing, solving, and comparing expressions? Why do you think these are important skills to work on? Will you teach someone at home how to play these games with you? What math skills will you need to teach in order for someone at home to be able to play with you?



Lesson 27
G:5 M:6

REFLECTION

Date:

Class:

How did teaching other students how to solve a word problem strengthen your skills as a problem solver? What did you learn about your problem-solving skills? What are your strengths and weaknesses as a problem solver?

Complete:



#### Lesson 28 G:5 M:6

# Fluency Round Up

#### **ZEARN STUDENT NOTES**

1

#### **SHOW YOUR WORK**

$$\frac{1}{2} \times \frac{1}{3} =$$

$$\frac{1}{2} \times \frac{3}{4} =$$

$$\frac{2}{5} \times \frac{2}{3} = -$$

$$\frac{3}{4} \times \frac{3}{5} =$$

$$\frac{4}{5} \times \frac{2}{3} = ----$$

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Lesson 28 G:5 M:6

# **REFLECTION**

Name:	Date:
Complete:	Class:

What math skills have you improved through our Fluency Practice? How do you know you've improved? What math skills do you need to continue to practice? Why?



Lesson 29 G:5 M:6	REFLECTION		
Name:		Date:	
Complete:		Class.	

It is said that the true measure of knowing something is being able to teach it to someone else. Who can you teach these terms to? How will you teach these terms to your student?



Lesson 30 G:5 M:6

# **REFLECTION**

Name:	_ Date:
Complete:	Class:

Playing math games can be a fun way to practice math skills. How will you use the games to retain these terms? Who will play with you? How can you change the games to play alone? How often will you play games?



#### Lesson 32 G:5 M:6

# **Zearnland Savings**

#### **ZEARN STUDENT NOTES**

Name:	Date:
Complete:	Class:

Jacob wants to save money for a souvenir from Zearnland in one year. In the first month, he added one quarter. Each month, he adds one quarter more than he added the month before. Complete the chart to show how much he will save in a year.

Month	Add	Total
January	\$0.25	\$0.25
February	\$0.50	
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		



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Lesson 32 G:5 M:6

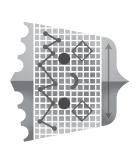
# **REFLECTION**

Name:	Date:
Complete:	Class:

Today, we watched how savings can grow over time, but we did not discuss how the money saved was earned. Have you ever thought about how math skills might help you to earn money? If so, what are some jobs that might require strong math skills? If not, think about it now. How might you make a living using math skills?



# ZEARN



Congratulations! You completed

# **Grade 5 Mission 6**

The Coordinate Plane

Name

※ © Zearned it! A ※

