Are you ready to **ŽEARN**?

Mission 4

Construct Lines, Angles, and Shapes

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:
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Name:	
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Mission 4: Workbook Checklist

1. Points, Lines, and Rays! O	h My!	Date:	Teacher Signature:	
Math Chat:	O No	tes	O Exit Ticket	
2. All Right with Me		Date:	Teacher Signature:	
Learning Lab:			O Exit Ticket	
3. Two Lines Make a Right		Date:	Teacher Signature:	
Math Chat:	O No	tes	O Exit Ticket	
4. Can't Touch This!		Date:	Teacher Signature:	
Math Chat:	O No	tes	O Exit Ticket	
5. Circle Up		Date:	Teacher Signature:	
Learning Lab:			O Exit Ticket	
6. To a Degree		Date:	Teacher Signature:	
Math Chat:	O No	tes	O Exit Ticket	
7. Make and Measure		Date:	Teacher Signature:	
Math Chat:	O No	tes	O Exit Ticket	
8. Turn, Turn, Turn		Date:	Teacher Signature:	
Math Chat:	O No	tes	O Exit Ticket	
9. Sum Angles		Date:	Teacher Signature:	
Learning Lab:			O Exit Ticket	
10. The Great Angle Myste	ry	Date:	Teacher Signature:	
Math Chat:	O No	tes	O Exit Ticket	

12. So Symmetrical		Date:	Teacher Signature:
Math Chat:	O Not	tes	O Exit Ticket
13. Name That Triangle		Date:	Teacher Signature:
Math Chat:	O Not	tes	O Exit Ticket
14. What's Your Angle?		Date:	Teacher Signature:
Learning Lab:			O Exit Ticket
15. Four Sides - Four Angle	es	Date:	Teacher Signature:
Math Chat:	O Not	tes	O Exit Ticket

Lesson 1 G:4 M:4

Points, Lines, and Rays! Oh My!

ZEARN STUDENT NOTES

Name:	Date:
Complete:	Class:
	ats to draw \overline{AB} , \overline{AC} , \overline{BD} , \overline{BE} .
Line segments have	
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A line extends in	_directions without an end
A ray has	and goes on forever in
one direction	
i Any	sharing the same endpoint
create an angle.	,

-	EXTRA WORKSPACE
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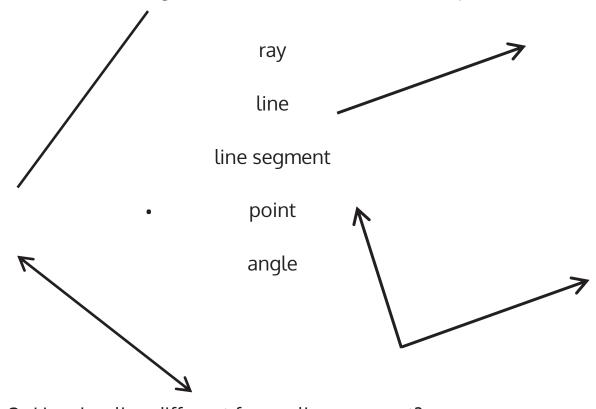


Lesson 1 G:4 M:4

EXIT TICKET

Name:	Date:	
Complete:	Class:	

1. Draw a line segment to connect the word to its picture.



2. How is a line different from a line segment?



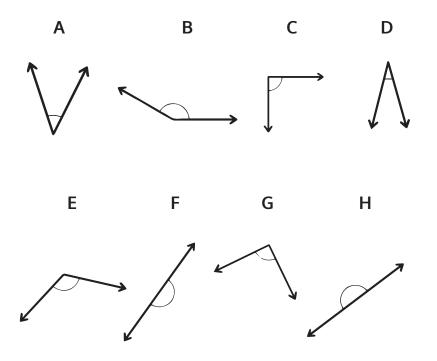
Lesson 2 G:4 M:4

EXIT TICKET

Name:	Date:	
Complete:	Class:	

- 1. Fill in the blanks to make true statements using one of the following words: acute, obtuse, right.
 - **a.** An _____ angle is smaller than a right angle.
 - **b.** An _____ angle is larger than a right angle, but smaller than a straight angle.

2. Use a right angle template or square corner to identify the angles below.



- a. Which angles are right angles? _____
- **b.** Which angles are obtuse angles? _____
- c. Which angles are acute angles? _____
- d. Which angles are straight angles? _____



Lesson 3 G:4 M:4

Two Lines Make a Right

ZEARN STUDENT NOTES

Name:	Date:
Complete:	Class:
You will need a right angle template or square lesson.	·
Perpendicular lines intersect to make	:
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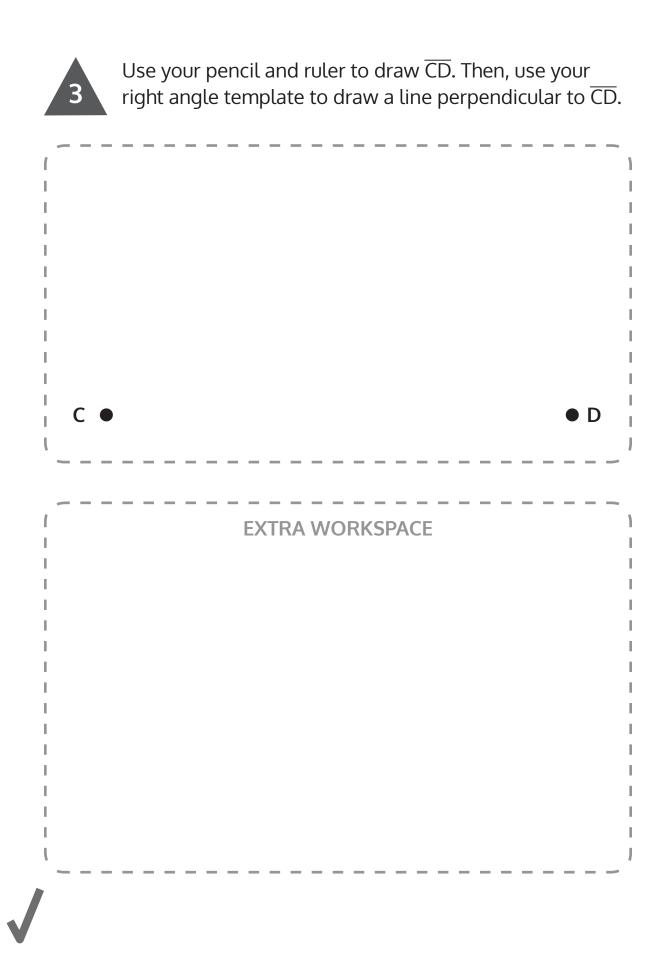


Using your right angle template, find and trace right angles in Mr. Sawicki's pictures.









Lesson 3 G:4 M:4

EXIT TICKET

Name:	Date:
Complete:	Class:

Use a right angle template or square corner to measure the angles in the following figures. Mark each right angle with a small square. Then, name all pairs of perpendicular sides.

1. C E	BC 上
2. M N O P	MN 上



Lesson 4 G:4 M:4

Can't Touch This!

ZEARN STUDENT NOTES

Name:		Date:	
Comp	lete: 🔲	Class:	
	You will need a rule	er for this lesson.	
1	Put your ruler in the drawing two sides of your ruler. Add pencil marks.	g area. Then, trace along the arrows to the end of your	
	DRAN	N 1	
I L – –	SOLV	/E .	
I P	arallel lines		
·	no matter how far y	ou extend them.	



Using your ruler, find and trace parallel lines in Mr. Sawicki's photos.

Not all of these photos have parallel lines. Mark only the parallel lines that you see.





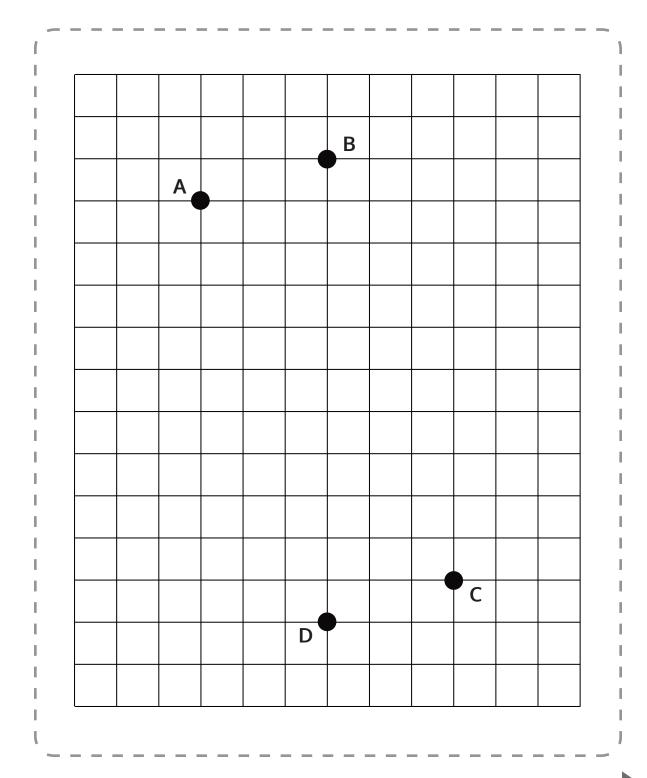


Δ

В



Draw rectangle ABCD on the grid



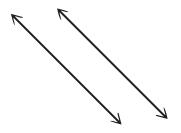
Using your straight edge, draw the horizontal line \overleftrightarrow{XY} and parallel line \overleftarrow{ST} . Χ ₩ _____ ŚŢ **EXTRA WORKSPACE**

Lesson 4 G:4 M:4

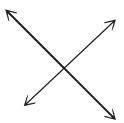
EXIT TICKET

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Complete:	Class:

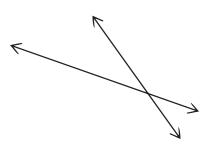
1. Look at the following pairs of lines. Identify if they are parallel, perpendicular, or intersecting.



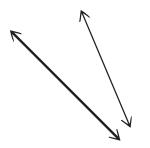
a. _____



b. _____



C. _____



d. _____



Lesson 5 G:4 M:4

EXIT TICKET

Name:	Date:
Complete:	Class:
1. How many right angles make a full turn? _	
2. What is the measurement of a right angle?	?
3. What fraction of a full turn is 1°?	
4. Name at least four benchmark angle meas	surements.



Lesson 6 G:4 M:4 To a Degree

ZEARN STUDENT NOTES

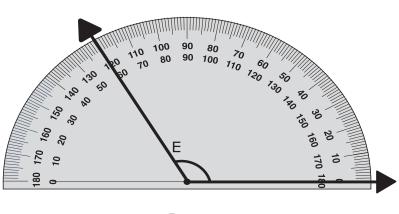
Name:______ Date:_____

Complete: Class:_____

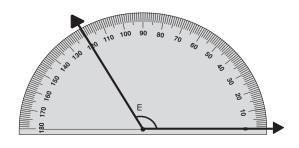
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Use these two protractors to measure angle E.

Protractor 1



Protractor 2





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Lesson 6 G:4 M:4

EXIT TICKET

Name:	Date:
Complete:	Class:

1. Use any protractor to measure the angles, and then record the measurements in degrees.

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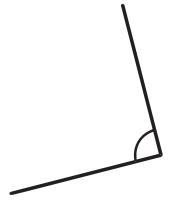
b.



 \mathcal{C}



d.





Lesson 7 G:4 M:4

Make and Measure

ZEARN STUDENT NOTES

Name:	Date:
Complete:	Class:
You will need a բ	protractor for this lesson.
1 Draw an 80° angle.	
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Draw a 133° angle.

DRAWING AREA



Lesson 7 G:4 M:4

EXIT TICKET

Name:	Date:
Complete:	Class:

1. Construct angles that measure the given number of degrees. Draw an arc to indicate the angle that was measured.

a. 75°	b. 105°
c. 81°	d. 99°



Lesson 8 G:4 M:4

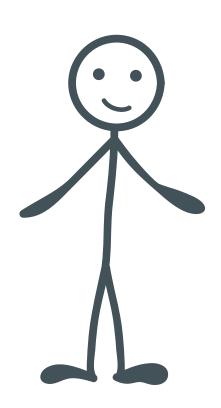
Turn, Turn, Turn

ZEARN STUDENT NOTES

Name:	Date:
Complete:	Class:

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If Mr. Sawicki makes two quarter turns in the same direction, how many degrees will he have turned?



Mr. Sawicki will have turned ______o.



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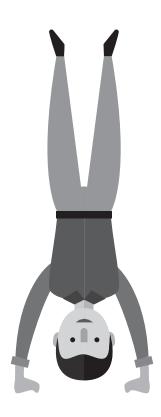


Lesson 8 G:4 M:4

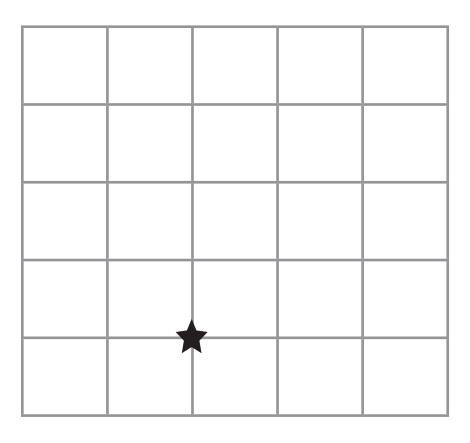
EXIT TICKET

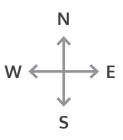
Name:	Date:
Complete:	Class:

1. Marty was doing a handstand. Describe how many degrees his body will turn to be upright again.



2. Jeffrey started riding his bike at the . He traveled north for 3 blocks, then turned 90° to the right and rode for 2 blocks. In which direction was he headed? Sketch his route on the grid below. Each square unit represents 1 block.





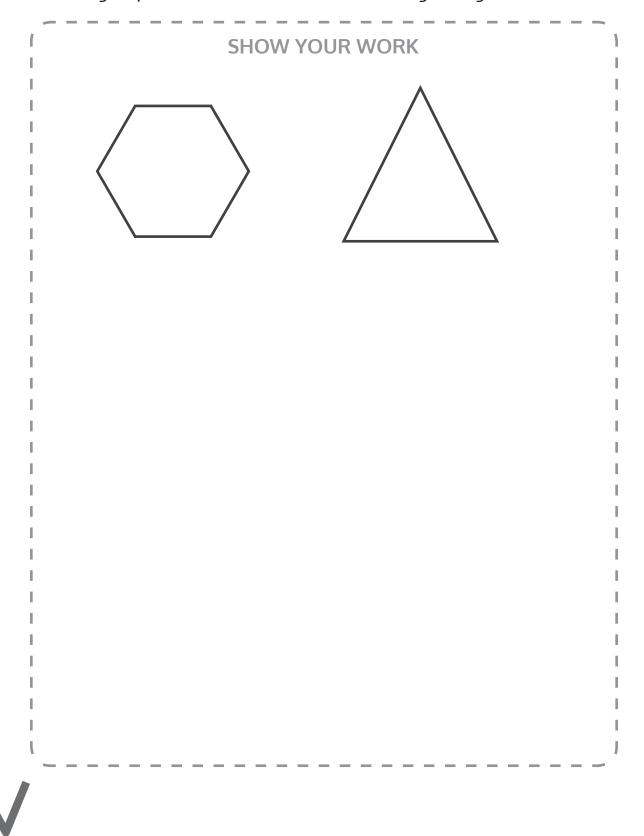


Lesson 9 G:4 M:4

EXIT TICKET

Name:	Date:
Complete:	Class:
 Describe and sketch two combinations of block that create a straight angle. 	the rhombus pattern
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2. Describe and sketch two combinations of the triangle and hexagon pattern block that create a straight angle.

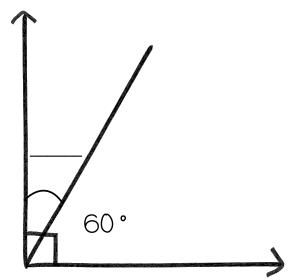


Lesson 10 G:4 M:4

The Great Angle Mystery

ZEARN STUDENT NOTES

Write a subtraction equation and solve for the unknown angle.



	SHOW YOUR WORK
 	==
 	Unknown angle =°

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	EXTRA WORKSPACE	1
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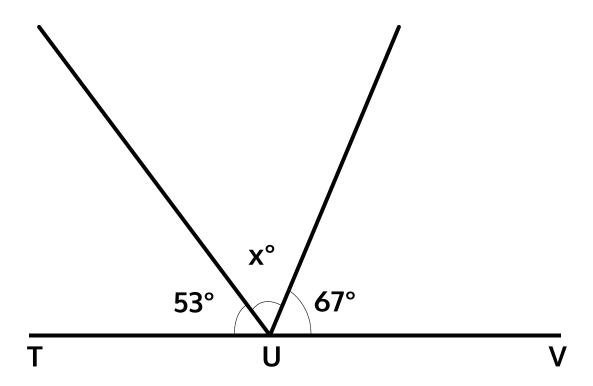
Lesson 10 G:4 M:4

EXIT TICKET

Name:_____ Date:____

Complete: Class:_____

1. Write an equation and solve for x. ∠TUV is a straight angle.



Equation: _____

x° = _____



Lesson 12 G:4 M:4

So Symmetrical

ZEARN STUDENT NOTES

Name:	Date:	
Complete: \square	Class:	

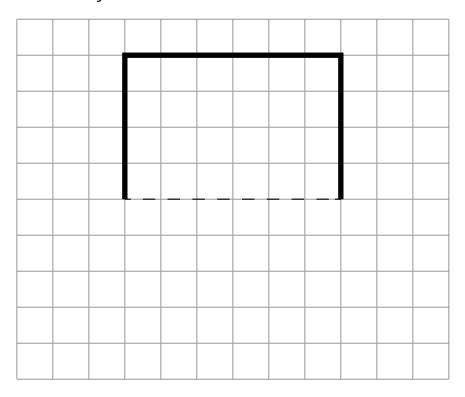
You will need a pair of scissors for this lesson.

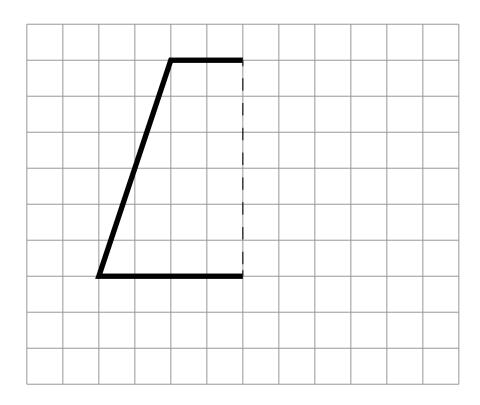
- 1 Use scissors to cut out the shapes on the last page.
- Look at each image below and determine whether there are any lines of symmetry. If you find any, draw the line that would be created by the fold.



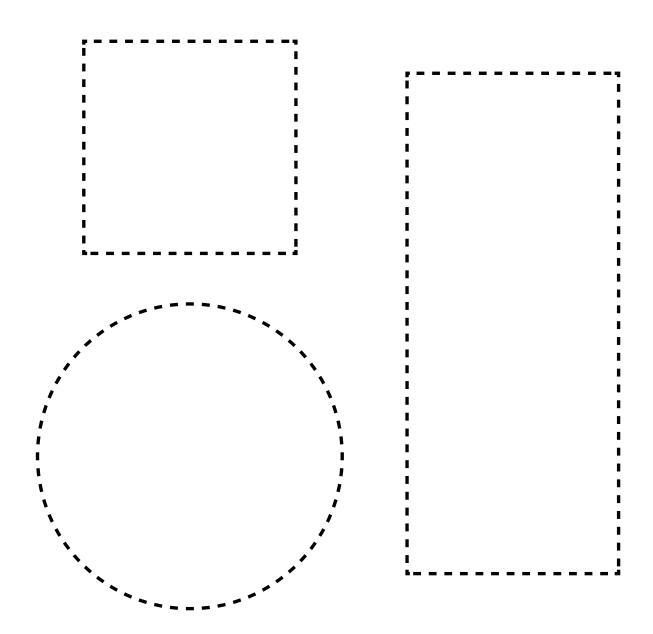


Use the grid to make a mirror image of the figures that are already drawn.







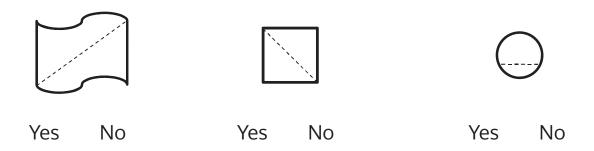


Lesson 12 G:4 M:4

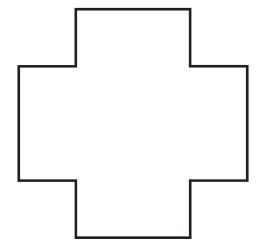
EXIT TICKET

Name:	
Complete:	Class:

1. Is the line drawn a line of symmetry? Circle your choice.



2. Draw as many lines of symmetry as you can find in the figure below.





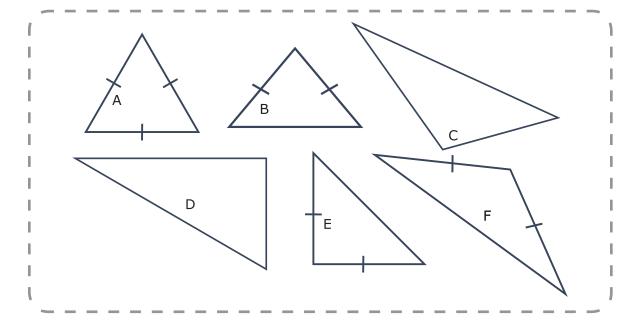
Lesson 13 G:4 M:4

Name That Triangle

ZEARN STUDENT NOTES

Name:	Date:
Complete:	Class:

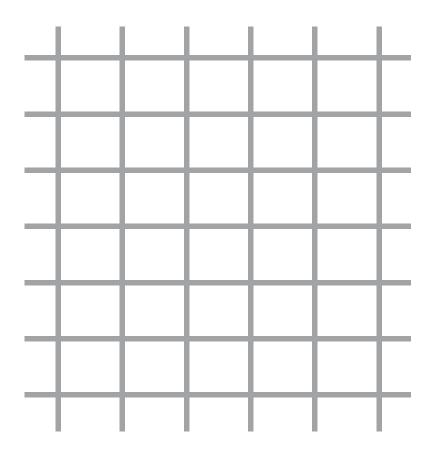
Look at Triangles A - F. Which have no equal sides? 2 equal sides? 3 equal sides?



	3 equal sides	2 equal sides	no equal sides
Triangles			



Use the grid to draw a triangle. Plot three points and label them A, B, and C. Connect the points with line segments to make a triangle.





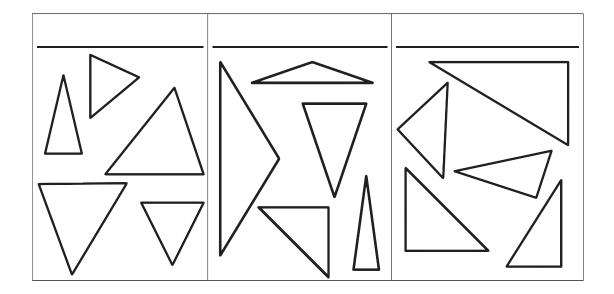
Lesson 13 G:4 M:4

EXIT TICKET

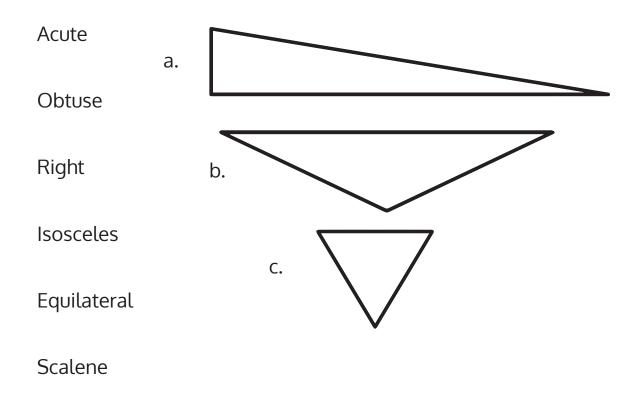
Name:	Date:
Complete:	Class:

Use appropriate tools to solve the following problems.

1. The triangles below have been classified by shared attributes (side length <u>or</u> angle type). Use the words **acute**, **right**, **obtuse**, **scalene**, **isosceles**, or **equilateral** to label the headings to identify the way the triangles have been sorted.



2. Draw lines to identify each triangle according to angle type and side length.



3. Identify and draw any lines of symmetry in the triangles in Problem 2.



Lesson 14 G:4 M:4

EXIT TICKET

Name:	Date:
Complete:	Class:
1. Draw an obtuse isosceles triang symmetry if they exist.	gle, and then draw any lines of
2. Draw a right scalene triangle, ar symmetry if they exist.	nd then draw any lines of
3. Every triangle has at least	_acute angles.



Lesson 15 G:4 M:4

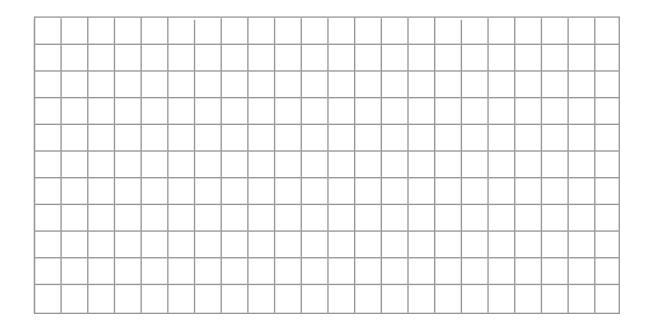
Four Sides — Four Angles

ZEARN STUDENT NOTES

Name:	Date:
Complete:	Class:

You will need a straight edge for this lesson.

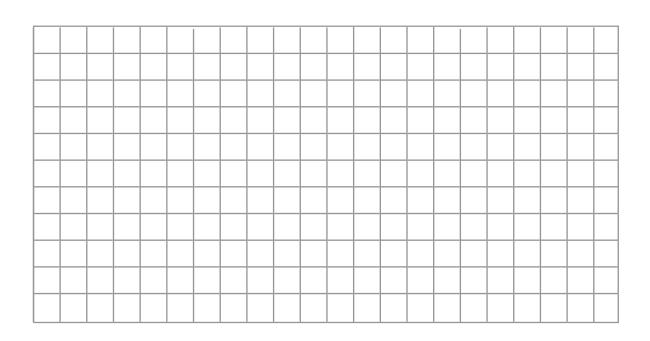
Draw a quadrilateral with a least **one** set of parallel sides.







Draw a quadrilateral with **two** sets of parallel sides.



EXTRA WORKSPACE	١
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Lesson 15 G:4 M:4

EXIT TICKET

Name:	Date:
Complete:	Class:
1. In the space below, draw a parallelogram.	
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2. Explain why a rectangle is a special paralle	elogram.
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ZEARN



Congratulations! You completed

Grade 4 Mission 4

Construct Lines, Angles, and Shapes

Name

※ 🔯 Zearned it! 🛒 💸

