

Independent Work (30.0%)	C	75.0
Overall Class Grade	A	91.3

Date Assigned	Category	Assignment	Points	Mark	Comment	Note
10/13/2014	Independent Work	Unit 2 Proficiency Graph	1.00 / 1.00	10 (100.0%)		
11/14/2014	Assessed Standards	Unit 3 G-CO.7	1.00 / 1.00	10 (100.0%)		
11/15/2014	Assessed Standards	Unit 3 G-CO.8	1.00 / 1.00	10 (100.0%)		
11/16/2014	Assessed Standards	Unit 3 G-CO.9	1.00 / 1.00	10 (100.0%)		
11/17/2014	Assessed Standards	Unit 3 G-CO.10	1.00 / 1.00	10 (100.0%)		
11/18/2014	Assessed Standards	Unit 3 G-CO.13	1.00 / 1.00	10 (100.0%)		
11/19/2014	Assessed Standards	Unit 3 G-SRT.5	1.00 / 1.00	10 (100.0%)		
11/20/2014	Assessed Standards	Unit 3 G-SRT.8	0.88 / 1.00	8.8 (88.0%)		
11/24/2014	Independent Work	Unit 3 Proficiency Graph				
11/24/2014	Independent Work	Unit 3 Notebook Check	0.50 / 1.00	5 (50.0%)		
12/9/2014	Assessed Standards	Unit 4 G-CO.11				
12/10/2014	Assessed Standards	Unit 4 G-CO.13				
12/11/2014	Assessed Standards	Unit 4 G-GPE.4				

I will give you 3 points to put on your Unit 3 Notebook grade if you will have your parents sign the progress report and return it by the end of the week.

Parent Signature _____

ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity

MATCHING ACTIVITY

Match the WORD to the PICTURE to the DESCRIPTION.

Answers:

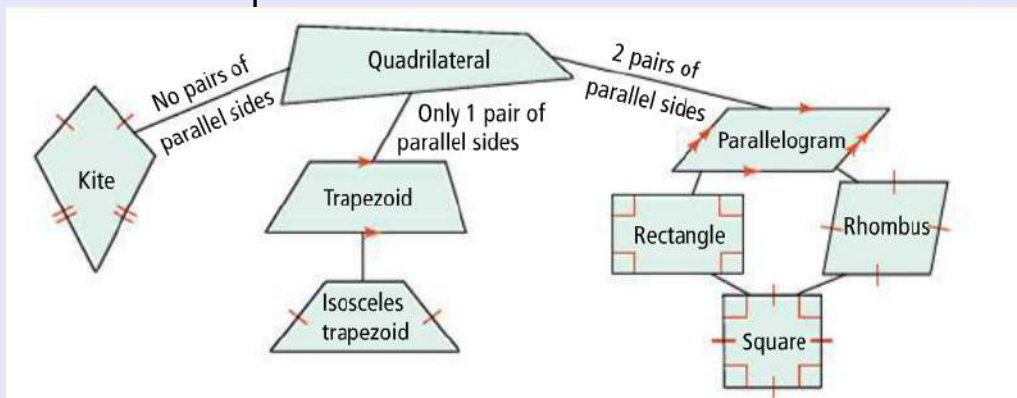
Kite		No pairs of parallel sides 2 pairs of congruent sides
Quadrilateral		4 sides
Square		2 pairs of parallel sides 4 congruent sides 4 right angles
Rhombus		2 pairs of parallel sides 4 congruent sides
Rectangle		2 pairs of parallel sides 2 pairs of congruent sides 4 right angles
Parallelogram		2 pairs of parallel sides 2 pairs of congruent sides
Isosceles Trapezoid		1 pair of parallel sides 1 pair of congruent sides
Trapezoid		1 pair of parallel sides No pairs of congruent sides

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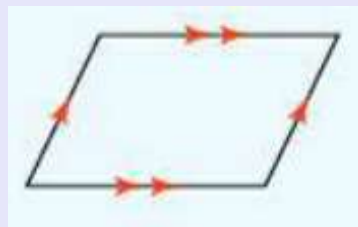
quadrilateral

four-sided polygon



Parallelogram

A quadrilateral with both pairs of opposite sides parallel



Summary:

ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity ICA: In Class Activity

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TI-NSpire Activity

By the end of the activity, you should have the following information recorded in your IAN (LEFT-SIDE):

#1.1a... Explanation: _____

#1.1b...

Slope of \overline{AB} :

Slope of \overline{BC} :

Slope of \overline{CD} :

Slope of \overline{AD} :

#1.1c...

Observations: _____

#1.2a...

Length of \overline{AB} :

Length of \overline{BC} :

Length of \overline{CD} :

Length of \overline{AD} :

#1.2b... Observations: _____

#1.2c... Observations of pattern: _____

#1.3a...

Angle A:

Angle B:

Angle C:

Angle D:

#1.3b... Observations of pattern: _____

#1.3c... Observations using the term "supplementary": _____

#1.4a

Length of \overline{AE} :

Length of \overline{CE} :

Length of \overline{DE} :

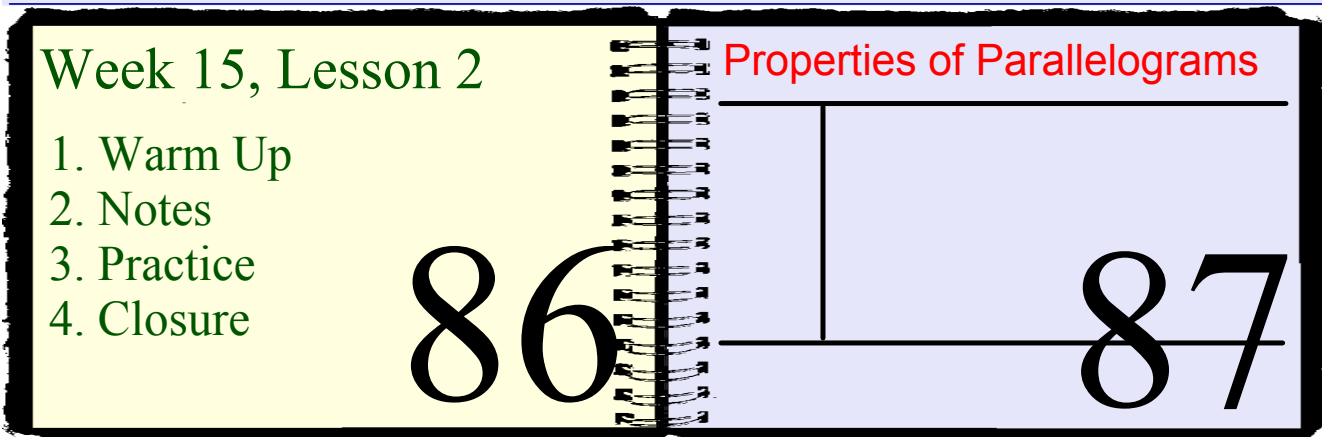
Length of \overline{BE} :

#1.4b

Observations: _____

EQ: G.CO.11 What are properties of parallelograms?

Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question

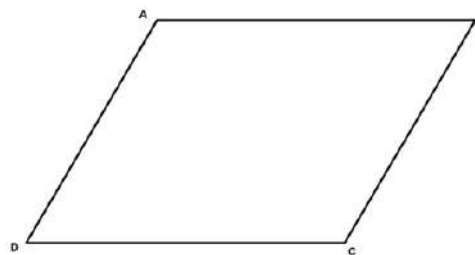


Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up

Warm Up:

Using the information from your TI-NSpire activity on page 84, answer the following questions.

1. True or False: If the quadrilateral at the right is a parallelogram, AB will be parallel to CD.
2. True or False: If the quadrilateral at the right is a parallelogram, AD and AB will be congruent.
3. True or False: If the quadrilateral at the right is a parallelogram, angle A will be equal to angle C.



Closure Closure Closure Closure Closure Closure Closure Closure Closure Closure Closure Closure Closure Closure Closure Closure Closure Closure Closure

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Right Side...

Write a summary that answers the essential question.

Left Side...

Compare and Contrast What is the difference between a quadrilateral and a parallelogram?

EQ: G.CO.11 What are properties of parallelograms?

Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question

Week 15, Lesson 3

1. Warm Up
2. Practice
3. Closure

88

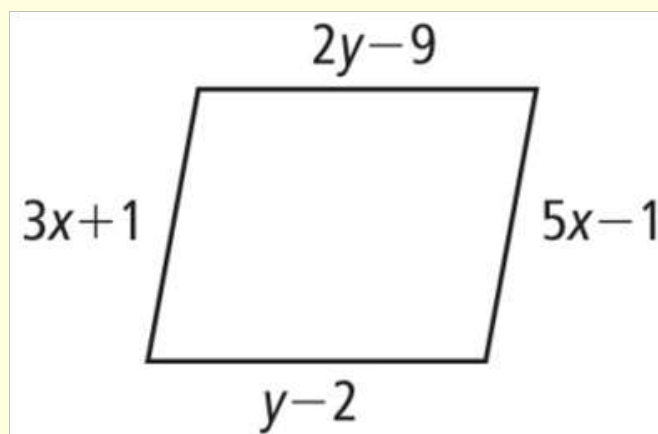
Properties of Parallelograms

89

Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up

Warm Up:

1. Given the parallelogram below, solve for x and y .
2. What property of parallelograms allows you to solve this problem?



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Name _____

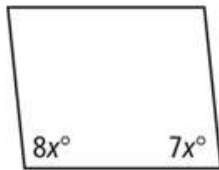
pd _____

IAN. page 80

G.CO.11 Practice Worksheet

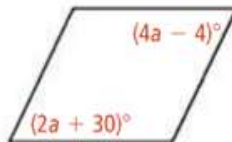
1. For each of the following parallelograms, solve for the variable(s). Then, describe the property you used.

(a)



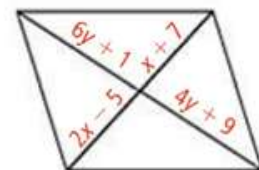
x = _____
Property: _____

(b)



a = _____
Property: _____

(c)

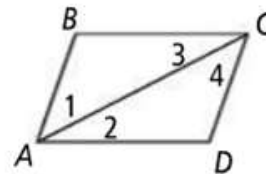


x = _____ y = _____
Property: _____

2. Complete the following proof.

Given: $\square ABCD$

Prove: $\overline{AB} \cong \overline{CD}$ and $\overline{BC} \cong \overline{DA}$



Statements	Reasons
1) $ABCD$ is a parallelogram.	1)
2) $\overline{AB} \parallel \overline{CD}$ and $\overline{BC} \parallel \overline{DA}$	2)
3) $\angle 1 \cong \angle 4$ and $\angle 3 \cong \angle 2$	3)
4) $\overline{AC} \cong \overline{AC}$	4)
5) $\triangle ABC \cong \triangle CDA$	5)
6) $\overline{AB} \cong \overline{CD}$ and $\overline{BC} \cong \overline{DA}$	6)

Right Side...

Write a summary that answers the essential question.

Left Side...

Error Analysis Your friend says, “If a quadrilateral has a pair of opposite sides that are congruent and a pair of opposite sides that are parallel, then it is a parallelogram.” What is your friend’s error? Explain.

EQ: G.CO.11 What are properties of parallelograms?

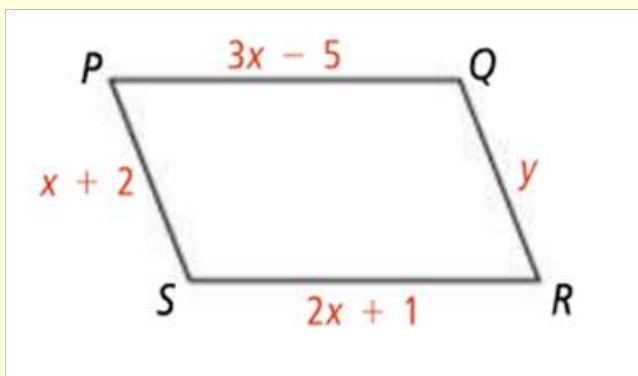
Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question

<p>Week 15, Lesson 4</p> <ol style="list-style-type: none"> 1. Warm Up 2. TI-NSpire activity 3. Notes 4. Practice 5. Closure 	<p>90</p>	<p>Properties of Parallelograms</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	<p>91</p>
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Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up

Warm Up:

Given the parallelogram below, find the values of x and y . Then, explain which property of parallelograms you used to solve this problem.

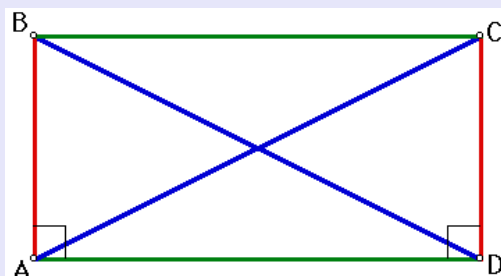


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Rectangles

Special quadrilaterals that have all of the characteristics of parallelograms PLUS:

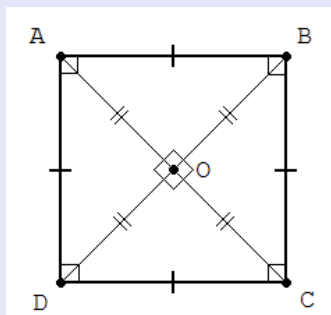
- consecutive sides are perpendicular (90° Angles)
- diagonals are congruent ($BD = CD$)



Squares

Special quadrilaterals that have all of the characteristics of parallelograms PLUS:

- consecutive sides are perpendicular
- all sides are congruent
- Diagonals are congruent
- Diagonals are Perpendicular



Summary:

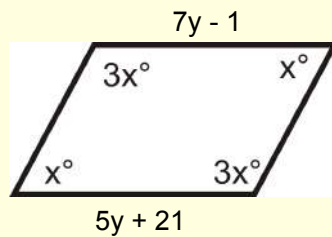
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Left-Side Practice

Given the following slopes, write the slope of the line parallel to it and the slope of the line perpendicular to it.

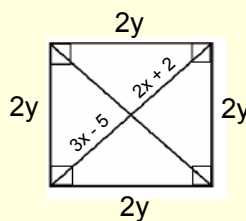
1. $m = 1/2$
2. $m = -3$
3. $m = 3/4$
4. $m = -1$
5. $m = 1$

6. (a) Given the quadrilateral below, what is the most specific name for it? What property justifies it as this shape?



(b) Solve for y . Then, find the length of the side.

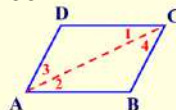
7. (a) Given the quadrilateral below, what is the most specific name for it? What properties justifies it as this shape?



(b) Find the value of x and the length of the diagonal.

8. Complete the following proof.

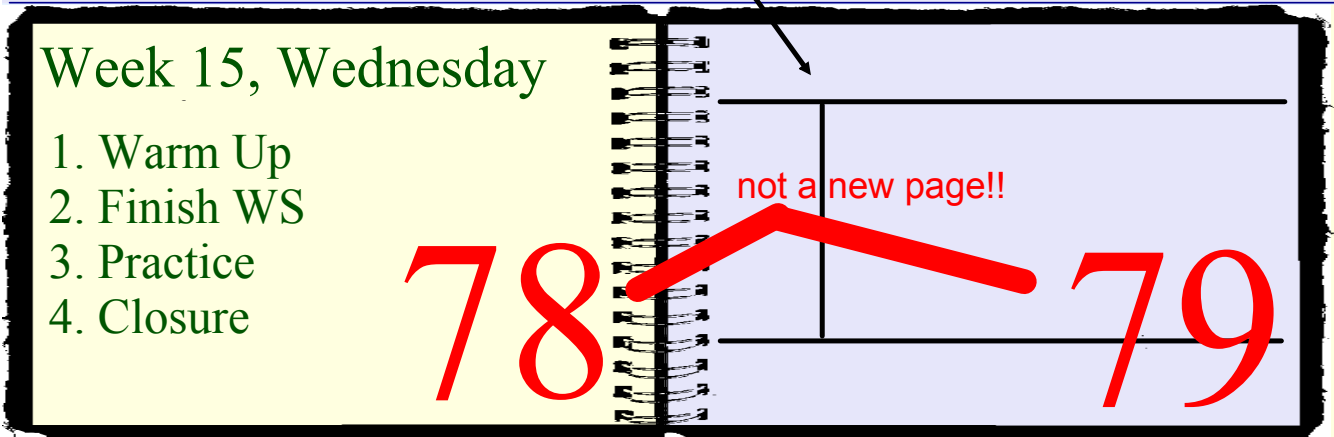
Given: $\square ABCD$
 Prove: $\overline{AB} \cong \overline{CD}, \overline{BC} \cong \overline{AD}$



STATEMENTS	REASONS
1 $\square ABCD$	1 Given
2 Draw segment from A to C	2 Two points determine exactly one line.
3 $\overline{AB} \parallel \overline{CD}, \overline{AD} \parallel \overline{BC}$	3
4 $\angle 1 \cong \angle 2, \angle 3 \cong \angle 4$	4
5 $\overline{AC} \cong \overline{AC}$	5
6 $\triangle ABC \cong \triangle CDA$	6
7 $\overline{AB} \cong \overline{CD}, \overline{BC} \cong \overline{AD}$	7

EQ: G.CO.11 What are properties of parallelograms?

Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question Essential Question



Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up Warm-up

Warm Up:

1. From memory, list as many of the 6 properties of parallelograms as you can.

2. Given the parallelogram at the right, find the values of x and y . Then, describe the property you used to solve this problem.

