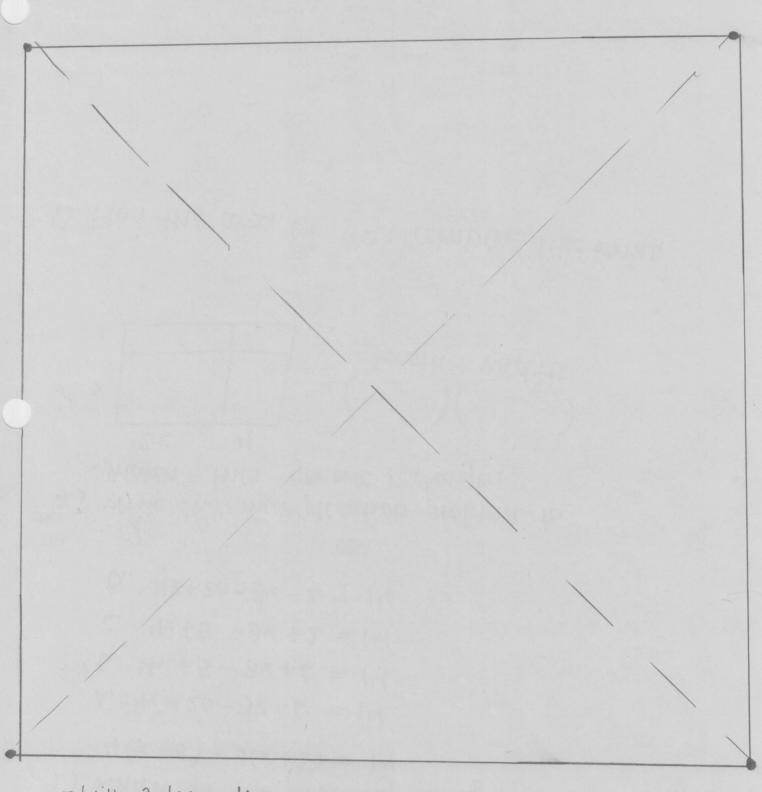
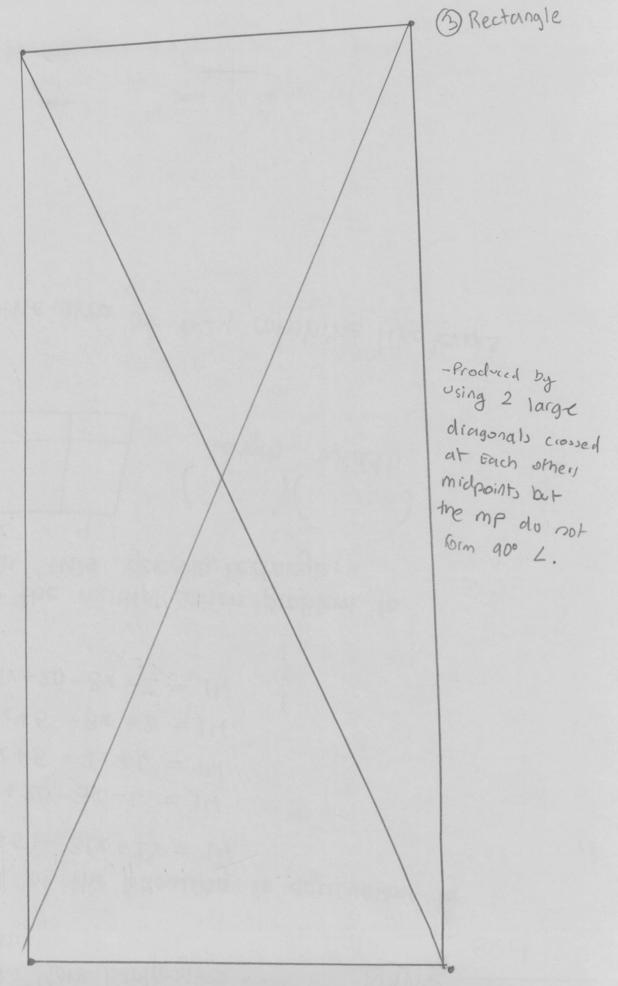


@ square



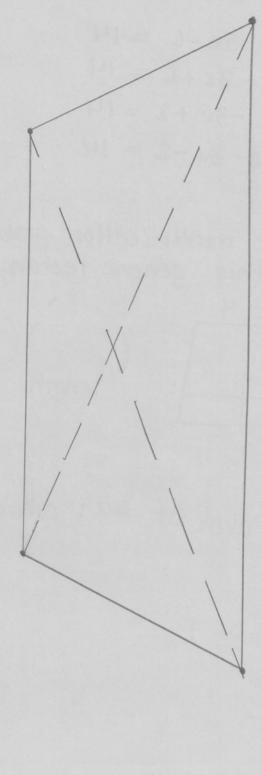
- With 2 large diagonals you can make any rectangle, square or parralelogram

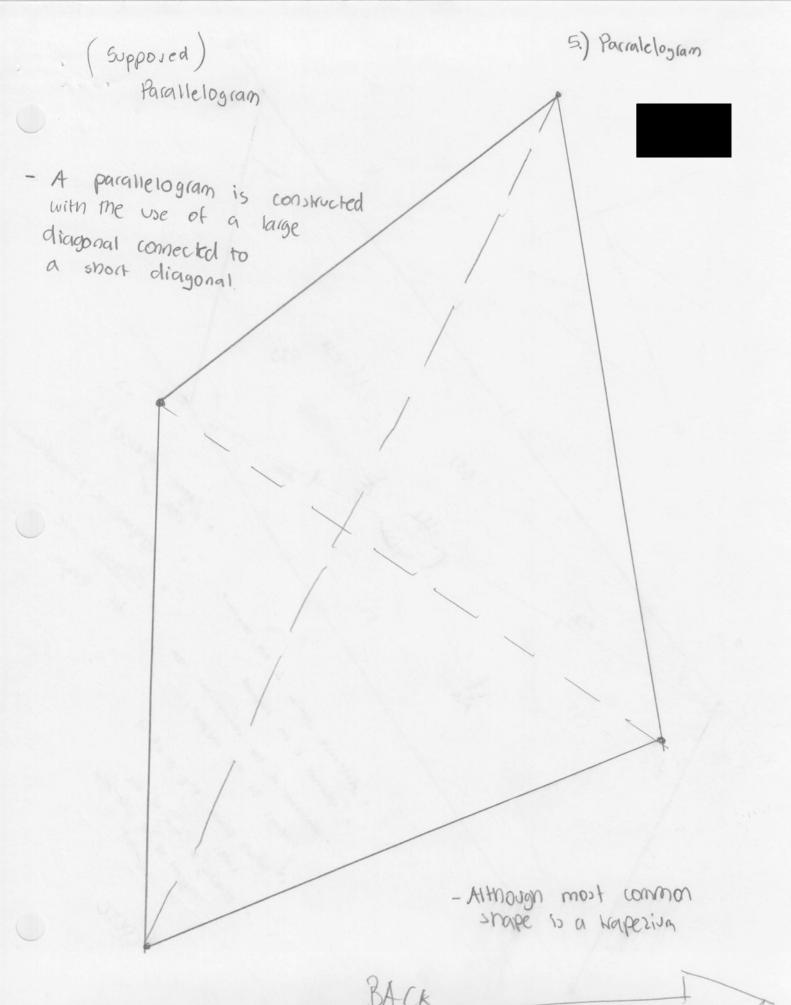


This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson. Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.

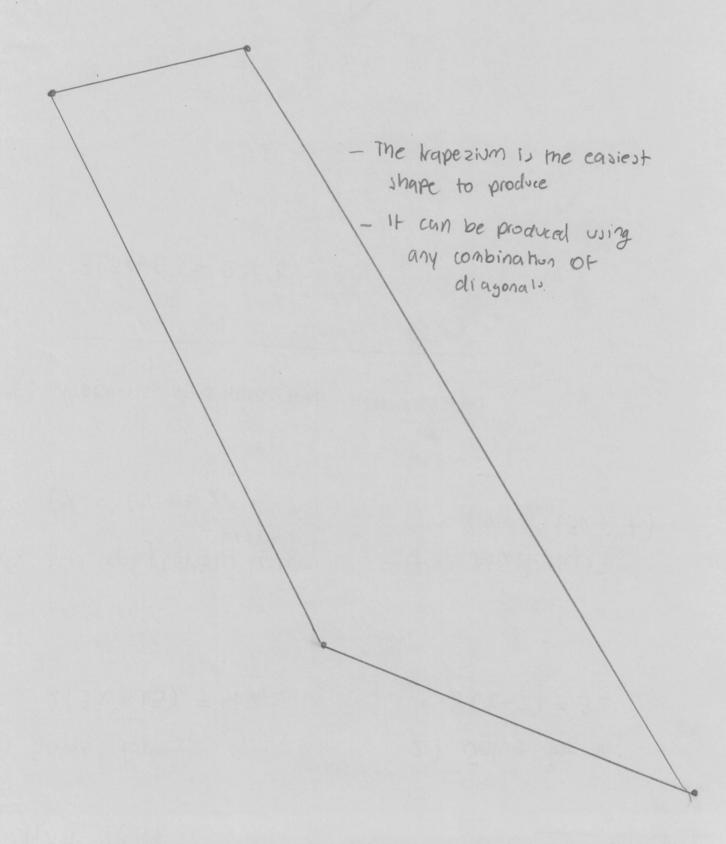
.) Trapezoid

(Every combination) of can also produce 6

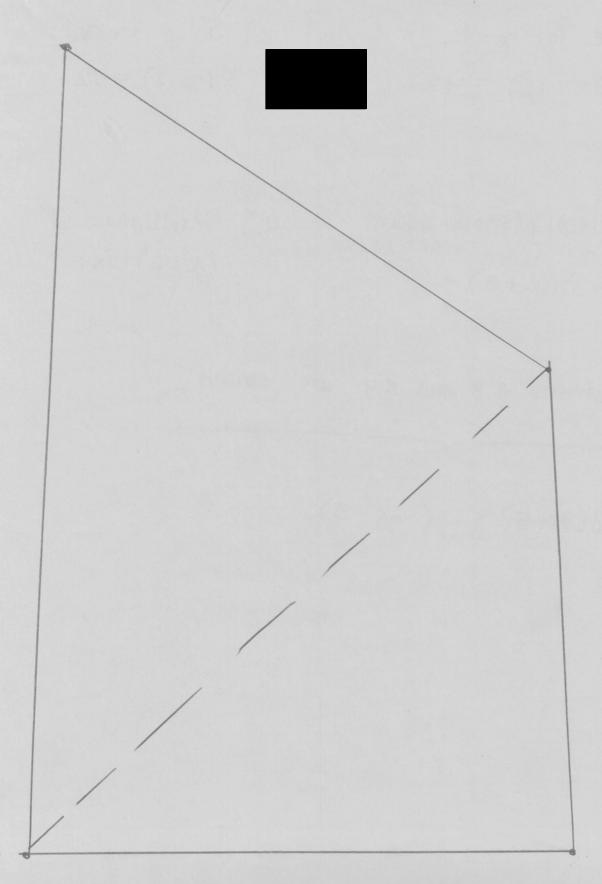




This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson. Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.



7.) Different Trapezoid



This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson. Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.

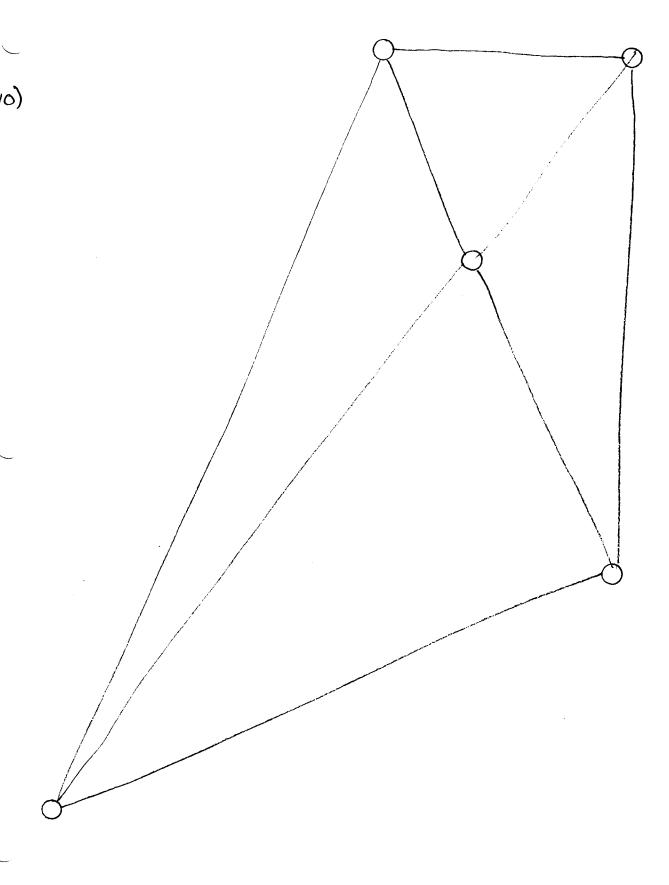
why is it that a rhombus can produce a trapezoid, trapezium, kite, & a parmetogram but why cant a kite? What other types of chapes can we produce that we might have missed?

I think that I did extremely well in documenting our process or observations.

I think that i noted it receivations carrowly, & that my work "evolved" through my observations in a clear way

support a valid a little bit ble they seem a little sloppy.

This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson. Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.



If: the diagonals bisent each other, and the diagonals are different lengths, then the quadrilateral is a chambus.

Rhombus: A parallelogram in which all sides are equal.

If " the diagonals bisect each other,

and the diagonals are not perpendicular,

and the lengths are the same,

then the quaelvilateral is a rectangle.

Rectargle: A parallelogram in which all Ls equal 90°.

1) The diagonals DB and Ac are the same length.

2) The diagonals' bisections are congruent (AE, DE, BE,

CE)

3) DAEB, DAED, ABAC, DDAL are isosceles 1) Given.

2) Division Property of Segments

3) Their

Prove 90°: A quadrilateral's angles = 360°
Addition of same angles = same angles
360° = 4 = 90°

addition prop. of angles



360° in qued

Rectargle

A VOE

1) $\overline{AD} \cong \overline{CB}$ 1) $\overline{6}$ iren

2) $\overline{AE} \cong \overline{ED} \cong \overline{CE} \cong \overline{BE}$ 2) Division Property of Segments

3) $\overline{LAEB} \cong \underline{LCED}$ 3) $\overline{Vertical}$ angles are \cong .

4) $\overline{LAEC} \cong \underline{LBED}$ 4) 11

5) $\underline{AEB} \cong \underline{ACED}$ 5)

Paralletogram:

Mar. 3,200

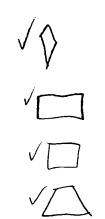
How is it possible to place sticks so that they make rigid quadrilaterals and can be described as one special type or another?

What I think I did well state my questions, conjectives and made diagrams as I went along.

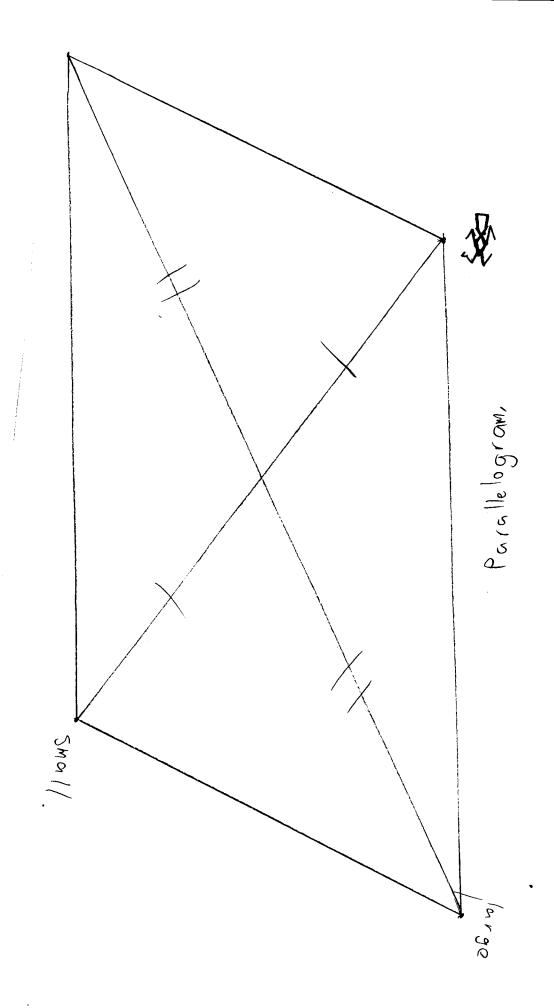
what I think I need to improve on. Recording my first observations which lead to my conjectures.

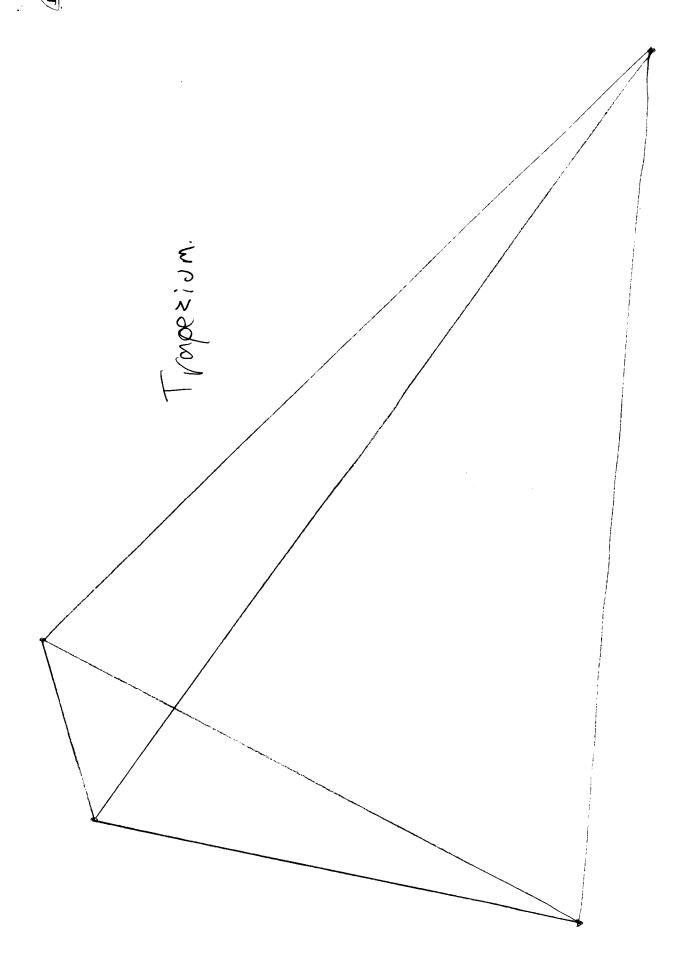
They med to cross cond other.

Small large this









This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson. Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.

Statements Reasons.

DE is the midpoint OGiven.

of AC

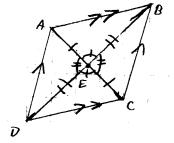
OE is the midpoint OGiven

of BD.

OLAEB = LDEC Overlical angles

OLAED = LBEC Overlical angles

BAB II DC



Alternate interior angles from two lines to be parallel

Geometry	Enriched,	Block

Name ______

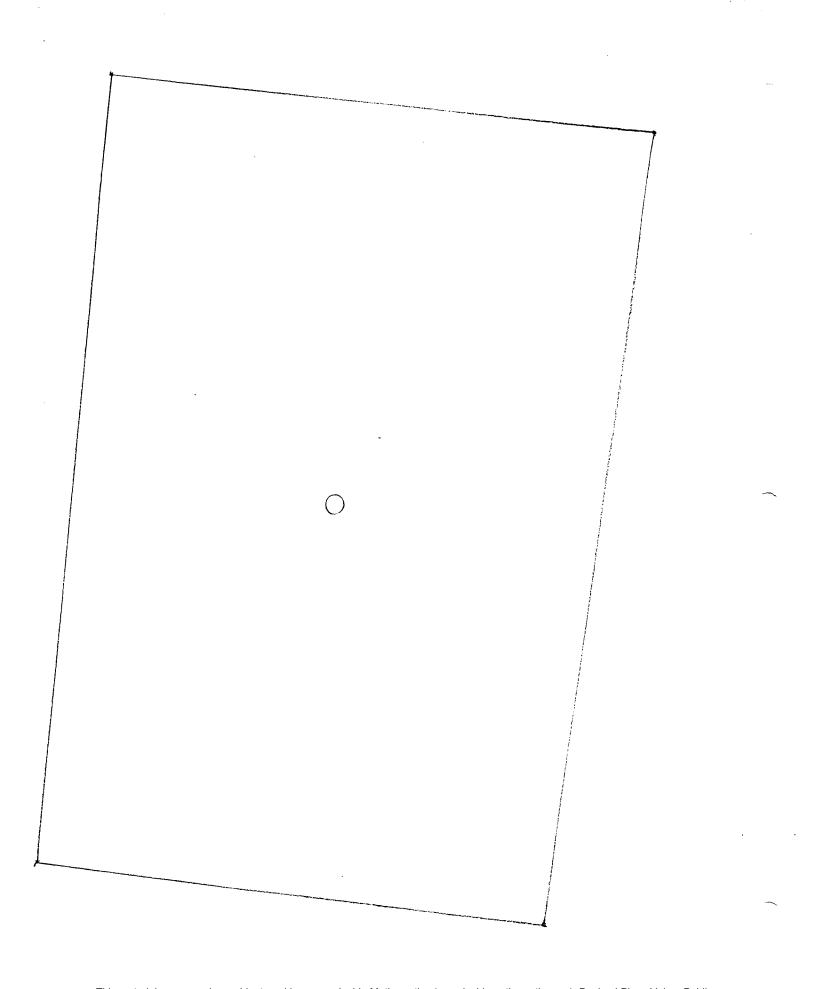
Construction HW #1

1. Use a compass to draw several circles. Each circle must have the same radius and the center of any new circle drawn must be on the circumference of an already existing circle. See what design you can create.

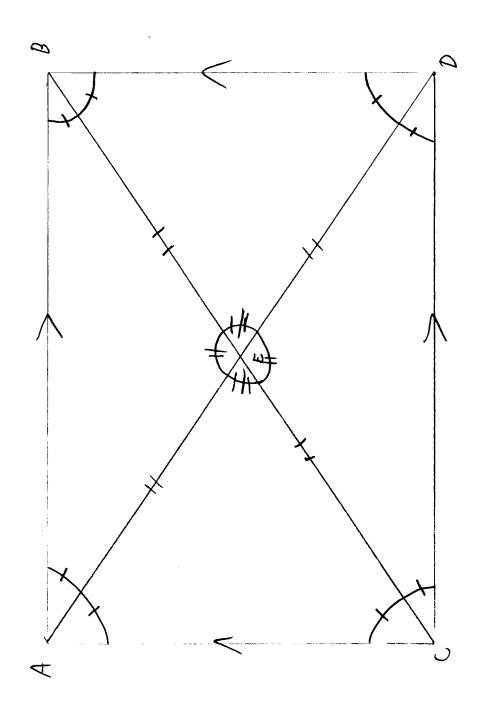
Statements	Reasons.
$0 \ \overline{AD} \cong \overline{BC}$	1 Given
·	

2. Using the circles you've drawn construct an equilateral triangle (note: you may need to add more circles).

Criteria: The circles need to be carefully constructed so that the radius does not change, even a little bit. Keep your pencil sharp, and make sure the intersections are precise. And the straight lines must be constructed with a straightedge! Keep practicing!



This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson. Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.



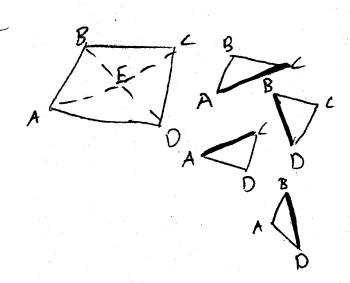
How many shapes do we need to do?

How can we explain the diagonals on a trapezoid?

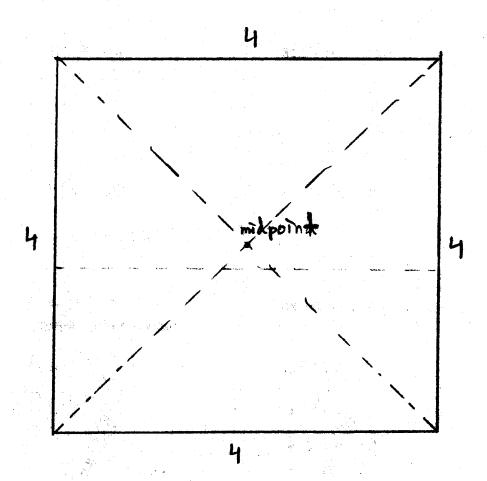
Do we have a lot of information or little?

I think I did well when I was drawing the diagonals of each polygon. And linding the portion of them.

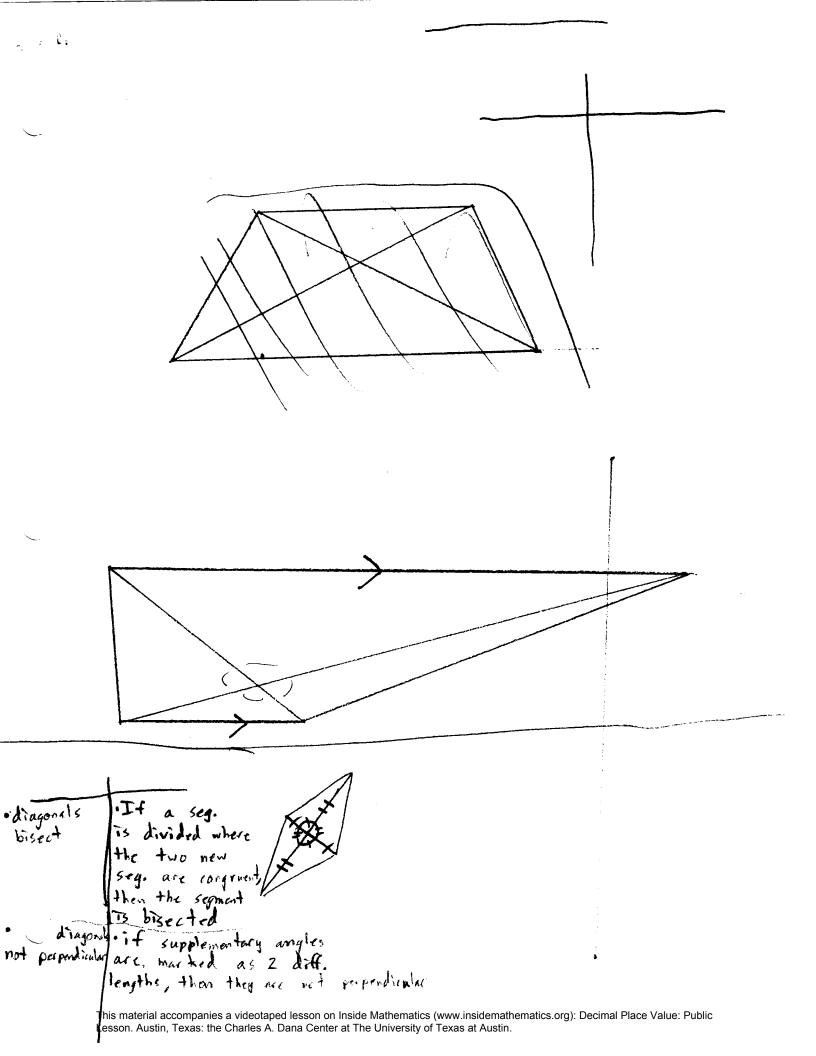
I think I can impose by toking more notes and idea so that I don't lose truth of when last your done



Blk 1 3/3/09







If the diagonals bisect each other

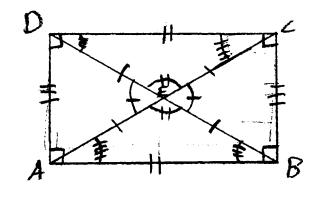
and the diagonals are not perpendicular

and the diagonals have same lengths

then the quadrilateral is a rectangle.

Rectangle: A parallelogram in which all angles are equal to 90°.

· △ABE ≅ACED · SAS · CO ≅ AB · CPCTL



How do you solve for a trapposition only with the diagonals?

I think I did well in drawing the shapes. But I think I can improve on writing down my thoughts.

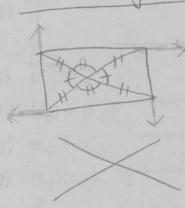
This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson. Austin, Texas; the Charles A. Dana Center at The University of Texas at Austin.

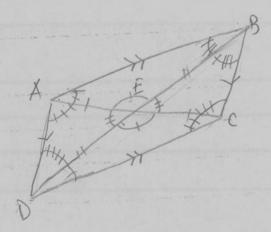


Non Iso Trop

· fastered at the same number hole
· court be fastered in center

rectargle





Proof Parallelogram

Hartement

- OACED = A AEB
- (2) A BEC = DAED
- 3 LBDC = LABD
- 7回和 11 DC
- GAD II BC

@ LBCA = LCAD

- reason
- OSAS
- (2) SAS
- (3) SPCTC
- 6 alternate interior angles
- @ alternete interior

4 CPCTC

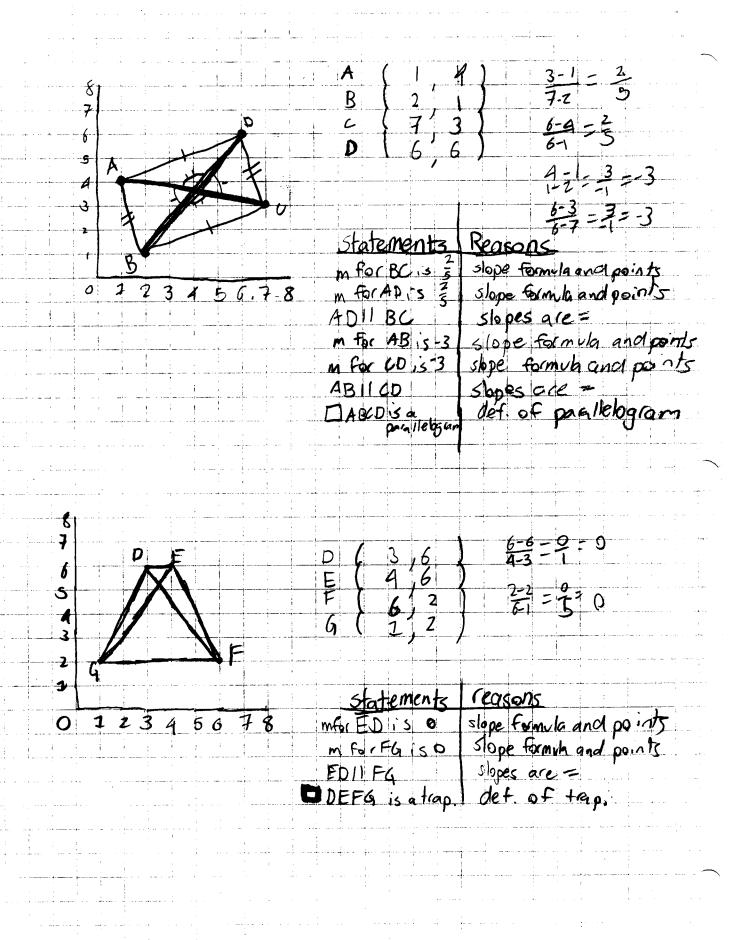
How can we prove the rectailytes corners are 90° angles?

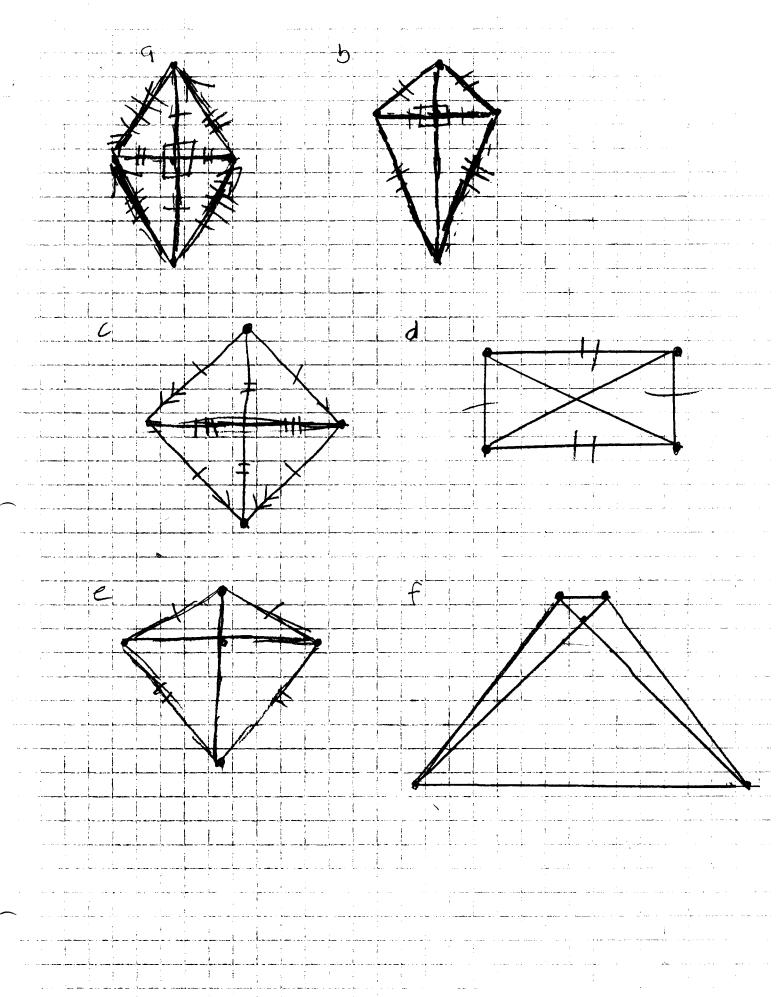
I think I did well in organizing my thoughts because each shape has its own section with observations. I think I can improve by using lines to seperate the work so that two shape's observation world look like one, with more notes.

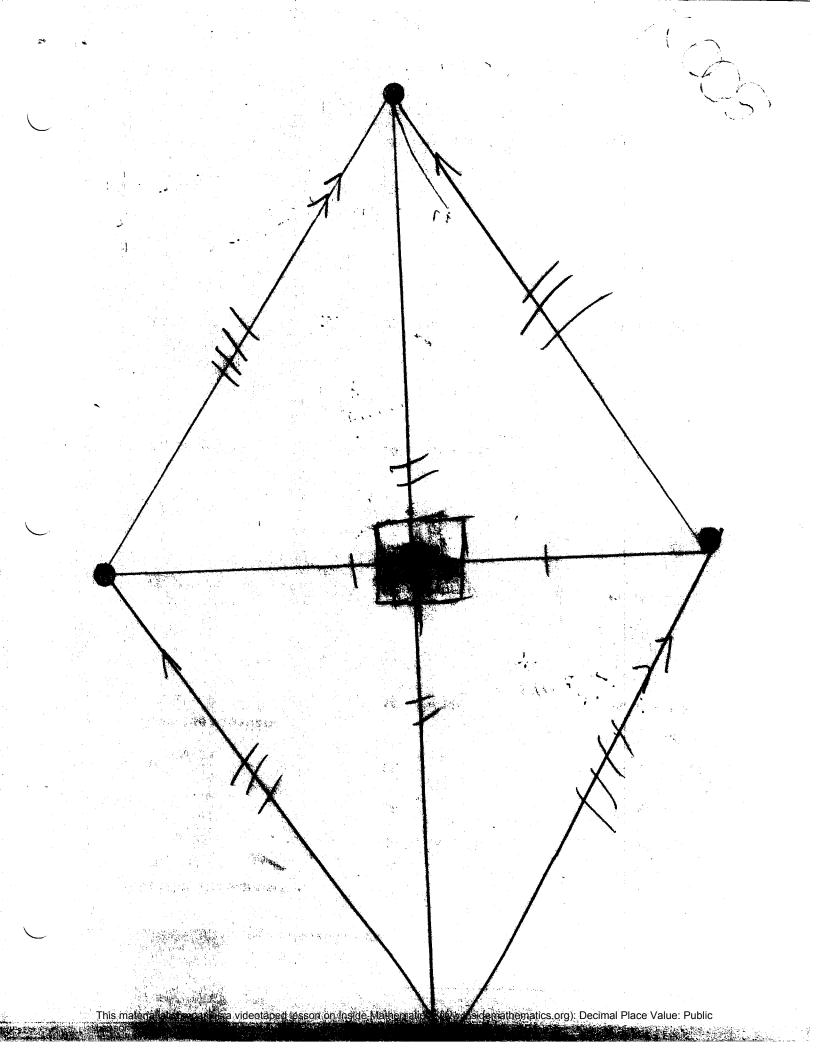
llong & I short (or parrallelo gram) center point on both can create a rhon bus center point on one can create a Kite 2 long center point on both square rectangle parallelogram shom bus center point on none, but some distance tra pezoids chan bus l center points on both sticks, any combination of center point on one stick, any combination of sticks
Square 1 center points on both sticks, both long sticks, 90° angles Parcy Helogram) center points on both sticks, any combination of Rectangla center points on both sticks, both long sticks

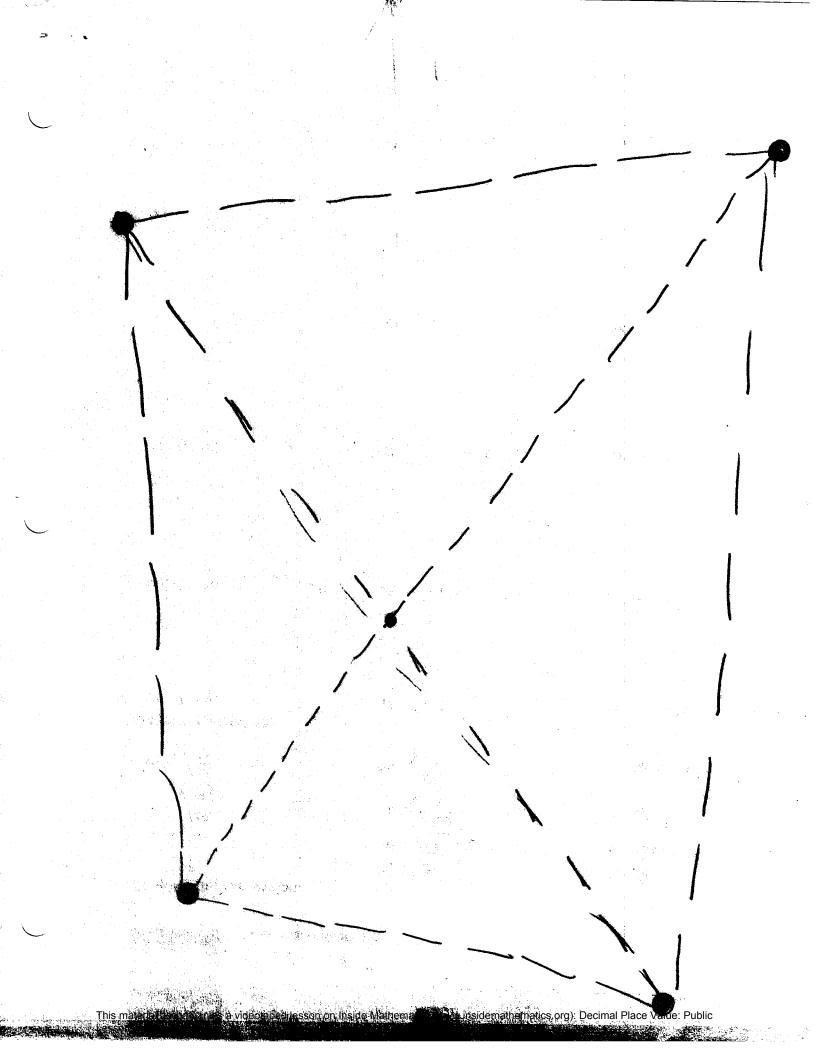
This naterial accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson, Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.

	rigpezoidi
	trapezorido both points equidistant to end points, both long sticks
	Sticks
· · · · · · · · · · · · · · · · · · ·	
<u>-</u> _	
· · · · · <u>-</u> · <u>- · -</u>	
<u></u>	
· · · · · · · · · · · · · · · · · · · 	
·· - ··- <u></u>	









B1. 2 3-3-09

Which sticks like the most singes that can be made? Why doesn't the tite make not make custom orders?

What I think I did well:
getting information on the paper about the shape;
we made.

What I thik I could impose next + ine: being specific tetchar in my data.

1. Trapezoio (3) Using the two big pieces, you can make a traperoid as long of as they both have the same distance (in sholes)

This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson. Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.

2, Rhontous (?) small and big wing the center of the little piece and any length of diagonal can't be used to make a the big piece you'll get any type square or rectangle. But they can of kite produce a parallelugram. Any of the diagonals that produce a rhombur /kite ean also make any \ trapezad or trapezium.

3. Trapezium Everything
that can make
a trapezuid
can also be
made into a
trapezium. a trapezium using any combination of diagonals. Hade with one big and one small piece.)
Buth in the center at an angle

This material accompanies a videotaped lesson on Inside Mathematics (www.insidemathematics.org): Decimal Place Value: Public Lesson. Austin, Texas: the Charles A. Dana Center at The University of Texas at Austin.

I wonder it we can produce any other guadinateals wing all three of the piece? other than a transcould

I think that we did good as a group because when ever we found out about something that was new we shared it with the group and wrote it down.

I think I can improve by thinking more about the work geometrically over too much tinkering.