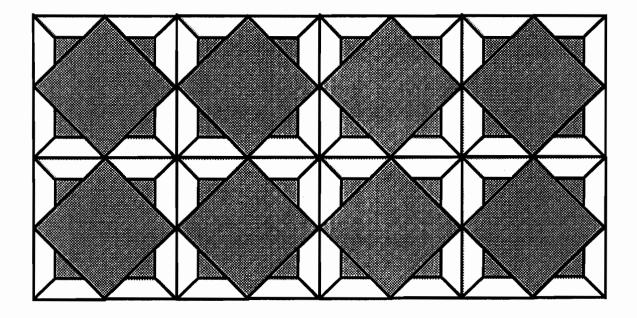
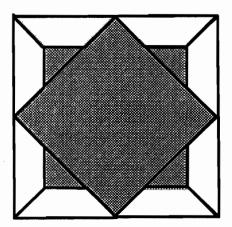
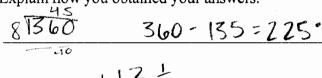
The diagram shows a floor pattern.

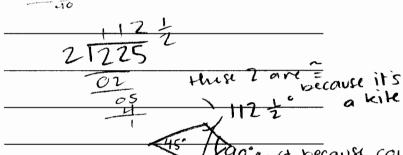


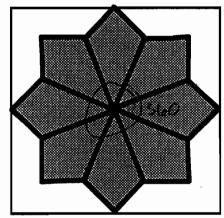


1. Find the measures of all four angles of the kites.

Explain how you obtained your answers.



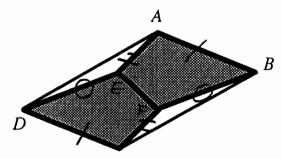




be described as 2 Ds

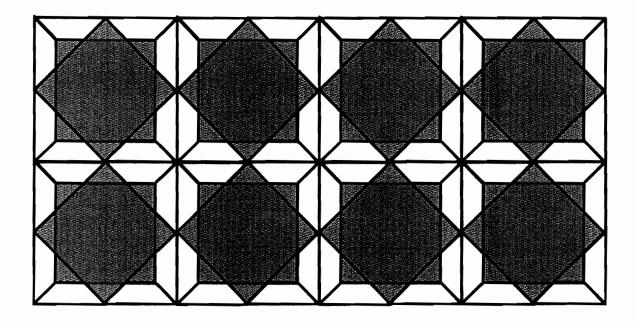
2. Two of the kites can fit together to make a hexagon.

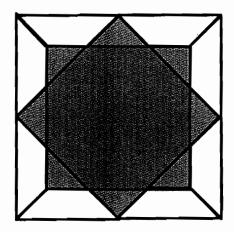
Prove that the quadrilateral ABCD is a parallelogram.



AB = DC AE = CF DE = BF	1, kites an = therefore corr sides			
2 LAED = LBFC	2 Jet = 360° P = or so left over us on			
3 DAED = DCFB	3 2 sides + an - one =			
4 AD= BC	U. CPCTC			
5 ABCD'S a =	3. two pairs of opp sides ore			

The diagram shows a floor pattern.

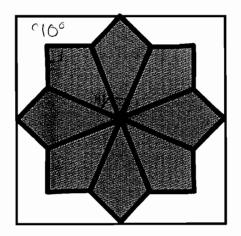




1. Find the measures of all four angles of the kites.

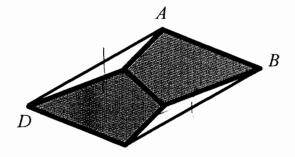
Explain how you obtained your answers.

Tet ( 12 100	
2nd L = 45°	
310 e 4th L's	or 112.5°



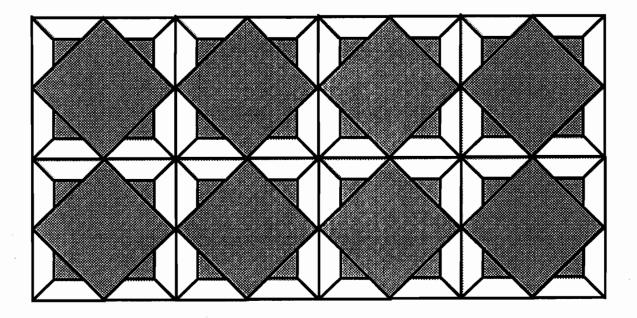
2. Two of the kites can fit together to make a hexagon.

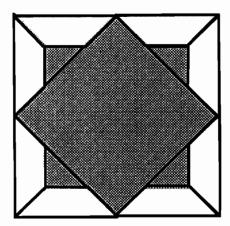
Prove that the quadrilateral ABCD is a parallelogram.



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accourse	&			v		usthodad a	
Congruent to		he (		-		2.1	for
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L's Car	grunt,	4	Must	be_		Parrellelo gran	n

The diagram shows a floor pattern.

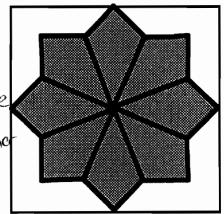




1. Find the measures of all four angles of the kites.

Explain how you obtained your answers.

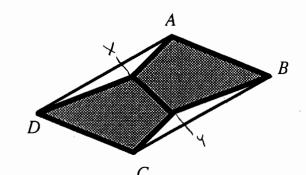
The inner most angle is 450 because they som a 360° withs eight angles. The cute angle is 90° because properties of a square, the who two angles are a half of 360-135-225
225/2-1125 because they are equal



by properties of a kite

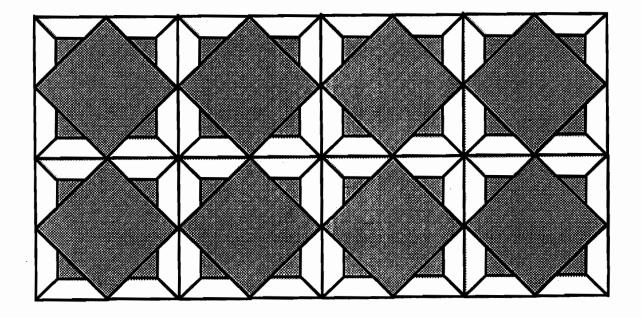
2. Two of the kites can fit together to make a hexagon.

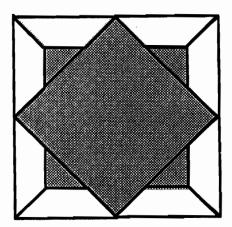
Prove that the quadrilateral ABCD is a parallelogram.



TEAB because the kites are equal by CPCTC. I drew points x & Y. As proved by the previous problem mcAXY=90° and amcDxY=112.5° so mcAXD must be 360-112.5-90=67.5. DAXD is isos, because AXEXD by CPCTC. So, CXAD=2'ADX and they both are equal since the both equal 112.5°, CAX and cDAD are supp so A1311DC because Ez's int=20 lines. Since one pair of upp. side are both E and 11, the quad-most be a parallelugiam

The diagram shows a floor pattern.

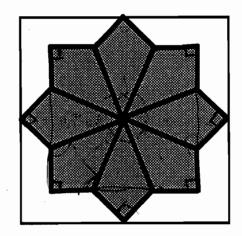




1. Find the measures of all four angles of the kites.

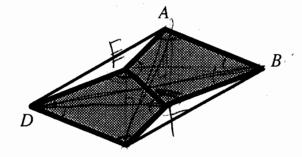
Explain how you obtained your answers.

The outer angles are all night, 90° Decause it is made of two squares
The closest to the middle 36%
-450 The other 2 are consent,
225/2 or 112.5 pach

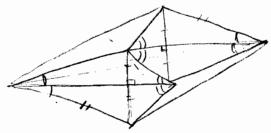


2. Two of the kites can fit together to make a hexagon.

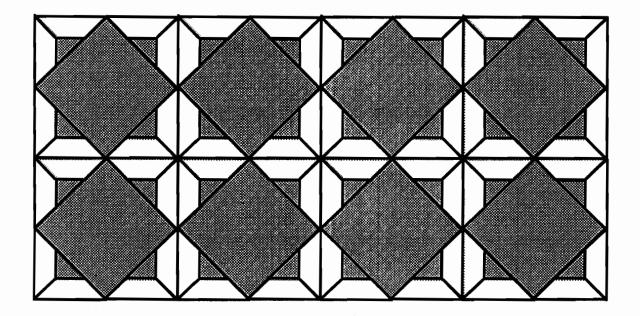
Prove that the quadrilateral ABCD is a parallelogram.

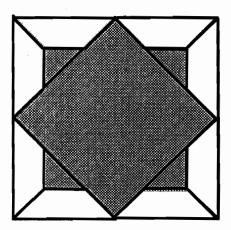


The letters are to some and equal pecause  $EF^{2}FC$ ,  $EF^{2}AE$  so  $DC^{2}AE$  and  $DF^{2}FB$ ,  $AE^{2}FC$ . LAED is congruent to LBFC because LAEF = LEFC and LPEF=LEFB and they all add up to  $360^{\circ}$ , which is proved by the Subtraction Property. Therefore  $\Delta AED^{2}\Delta CFB$  by SAS, and  $AD^{2}BC$  by CPCTC. If a quadrilatral has two pairs of opposite sides (originant, it is a parallelogram.



The diagram shows a floor pattern.





1. Find the measures of all four angles of the kites.

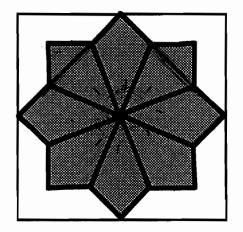
Explain how you obtained your answers.

$$\frac{360}{8} = 45 - 1 \text{ mer Angle}$$

$$\frac{180-45}{2} = 67.5 - \text{ part of the 2 side } \Delta's$$

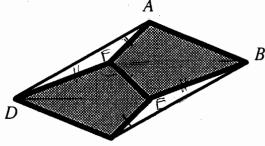
$$\frac{90 - \text{ outer angle (commer of a square)}}{2} = 45 - 2 \Delta' \text{ part of side } \Delta's$$

$$45+67.5 = 112.5 - \text{ side } \Delta's$$



2. Two of the kites can fit together to make a hexagon.

Prove that the quadrilateral ABCD is a parallelogram.



DC=AB A according to congruent corresponding parts.

Angle LAFD=LCEB because LAFE=LFEC and LDFE=LFEB.

Therefore a AFD=ACEB Through CASTC AD=CB. Therefore

ABCD is a parellelogram