Unit 1 -	- Properties	of Parallelo	grams
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GSE Geometry

Name:				Date:	
Choose a wor	d from the word	bank to comple	ete each senter	nce. Words will be used	more than once
Congrue	ent Para	llel Sup	plementary	Parallelogram	Bisect
1. A quac	drilateral with tw	o pairs of paralle	el sides is a		
2. The op	posite sides of a	parallelogram o	are	and	
3. The op	posite angles of	a parallelogram	n are		
4. The co	nsecutive angle	s of a parallelog	ram are		
5. The dic	igonals of a par	allelogram	ec	ach other.	
se parallelog	gram ABCD to a	nswer questions	#6-8.		
6. Name	two pairs of con	gruent angles:			
	≊	AND	≌		
7. Name	four pairs of sup	plementary ang	les:		
	+	=		В	<b>~~</b> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	+	=		/	+
	Ŧ	=		A	D
	+	=			
8. Name	two pairs of con	gruent segment	s:		
	N S	AND	$\sim$		



## Use parallelogram ABCD to answer the following questions.



 $m\angle ADC = \_ m\angle DAB = \_ m\angle ACB = \_$  $m\angle ADC = \_ m\angle ADB = \_ m\angle ABD = \_$ 

Using the properties of parallelograms, (1) identify the relationship between given features, (2) identify the property of parallelograms supporting the relationship, and (3) write and solve an algebraic equation for each diagram.

Diagram	15. B 14 C $x + 8$ D	16. $(2x + 20)^{\circ}$ $(3x + 10)^{\circ}$ D	17. $B = (8x - 6)^{\circ}$ $B = (8$
Relationship: Congruent OR Supplementary?			
Property of Parallelograms Supporting the Relationship?			
Equation			
x = ?			