Exploring the World of Math

Name:				Date:					
Apportion	ment								
1. Four r of Nor	egions o	s 67,500. The pop n of Westland is	ulation of Eastla	, Eastland, Southl nd is 93,500. The government, we	population of So	uthland is 71,250			
a.	What i	is the standard di	visor for our popu	ulation?					
b.	How m	nany seats will No	rthland receive b	nd receive based upon their population?					
C.	How many seats will Eastland receive based upon their population?								
d.	How m	How many seats will Southland receive based upon their population?							
e.	How many seats will Westland receive based upon their population?								
popul	-	875,430 people.		ds for region bas of road in the o					
		Zone A	Zone B	Zone C	Zone D	Zone E			
No of m		152	98	68	212	87			
a. b.		is the population is the population							
C.	What i	is the population	of zone C?						
d.	What i	is the population	of zone D?						
e.	What i	is the population	of zone E?						

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- 3. Explain the Divider Chooser method where there is video game schedule for the next 24 hours. Sam likes to play the game during the 12 hours of darkness 4 times better than the daytime and he is the divider. Stacey like daytime or nighttime play equally and she is the chooser.
 - a. How should Sam pick if he does not know Stacey's preference?
 - b. How should Sam pick if he does know Stacey's preference?
- 4. Marvin likes almond cake 4 times more than white cake. We have a single cake, one half almond and one half white. The sheet cake is \$40.
 - a. How much is ½ of the white cake worth to Marvin?
 - b. How much is the almond cake worth to Marvin?
 - c. How much is ½ of the white cake worth to Marvin?
 - d. How much is a slice of ¼ of the yellow cake and ¼ slice of the white cake worth to Marvin?
- 5. England, France, Germany and Spain are bidding on four items labeled s1, s2, s3 and s4. They all want to win one item and leave for home. Their bids are:

	S1	S2	S3	S4
England	\$7 billion	\$6 billion	\$5 billion	\$3 billion
France	\$3.5 billion	\$4.5 billion	\$5.5 billion	\$6 billion
Germany	\$5 billion	\$5 billion	\$5 billion	\$5 billion
Spain	\$4 billion	\$4.5 billion	\$4 billion	\$5.2 billion

- a. What items are fair shares to England?
- b. What items are fair shares to France?
- c. What items are fair shares to Germany?
- d. What items are fair shares to Spain?
- e. What is the only fair division of s1, s2 and s3?