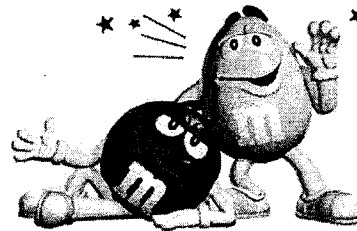


Practice -- Apportionment

1. A mother has 50 pieces of identical candy to split among her 5 children. She decides that each child will earn a portion of the candy based upon how many minutes of chores they did during the week. Use each method to apportion the candy.



$$SD = \frac{900}{50} = 18$$

$$SD = \underline{18}$$

$$MD = \underline{\hspace{2cm}}$$

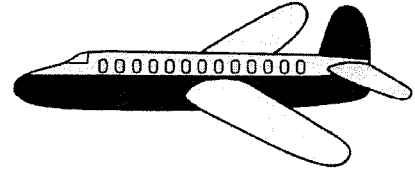
child	minutes of chores	SQ	LQ	Hamilton Apportionment	MQ	Jefferson Apportionment
Alan	150	8.333	8	8		
Betty	78	4.333	4	4		
Connie	173	9.611	9	10		
Doug	204	11.333	11	11		
Eli	295	16.389	16	17		
TOTAL	900	50	48	50		

$$MD = \underline{\hspace{2cm}}$$

$$MD = \underline{\hspace{2cm}}$$

child	UQ	MQ	Webster Apportionment	GM	MQ	Huntington-Hill Apportionment
Alan						
Betty						
Connie						
Doug						
Eli						
TOTAL						

2. Powell Pacific, a start-up airline company, has created the new Warp Plane. They will start with sixty-five flights per month on three routes. Those routes are: Chicago to New York, Chicago to Los Angeles, and Chicago to Miami. They anticipate 4010 passengers flying from Chicago to New York, 3150 flying from Chicago to Los Angeles, and 1840 flying from Chicago to Miami. Apportion the flights to the routes based on the number of anticipated passengers using the each method.



$$SD = \frac{9000}{65} = 138.4615385$$

$$MD = \underline{\hspace{2cm}}$$

route	# of passengers	SQ	LQ	Hamilton Apportionment	MQ	Jefferson Apportionment
Chi to NY	4,010	28.961	28	29		
Chi to LA	3,150	22.75	22	23		
Chi to Miami	1,840	13.289	13	13		
TOTAL	9000	65	63	65		

$$MD = \underline{\hspace{2cm}}$$

$$MD = \underline{\hspace{2cm}}$$

route	UQ	MQ	Webster Apportionment	GM	MQ	Huntington-Hill Apportionment
Chi to NY						
Chi to LA						
Chi to Miami						
TOTAL						
TOTAL						