The Importance of Accurate Measurements

						Sa	ilir	ng to an Is	lar	nd				
		ر اللہ ف		1000								Name:		
		<u> </u>	7	37°								Date:		
Exact Angle	e	Angle off by: (degrees)		Angle mistakenly used		Find sine of Angle (use trig table or a calculator)	ī	Mult by 1000km		Length of Side Opposite Angle		Subtract Exact Value	Final distance off by: (km)	Within 50km of the island center?
37.0	+	5.0	=		>		*	1000.0	=		-	600.0		
37.0	+	2.0	=		>		*	1000.0	=		-	600.0		
37.0	+	0.0	=	37.0	>	0.60	*	1000.0	=	600.00	-	600.0	0.0	Yes
37.0	+	-2.0	=		>		*	1000.0	=		-	600.0		
37.0	+	-5.0	=		>		*	1000.0	=		-	600.0		
	57	382,	,700 37°	km	/		et	Ship to th	ΞN	/100N				
(Angle off	37°	Angle		Find sine of Angle		Mult bur		Longth of Cido		Culture et	Final distance	Within 1738
Exact Angle	9	by: (degrees)	I	mistakenly used	1	(use trig table or a calculator)		382,700 km		Opposite Angle	1	Exact Value	off by: (km)	km of the Moon center?
37.0	+	1.0	=		>		*	382700.0	=		-	230314.6		
37.0	+	0.2	=		>		*	382700.0	=		-	230314.6		
37.0	+	0.0	=	37.0	>	0.6018	*	382700.0	=	230314.6	-	230314.6	0.0	Yes
					`		*	382700.0	=		-	230314.6		
37.0	+	-0.2	=		-									
37.0 37.0	+ +	-0.2 -1.0	=		>		*	382700.0	=		-	230314.6		

Navigation: Lesson 4, Close Enough Activity - Accuracy By Hand Worksheet