



Activity 1.3.2a – Decimal Conversion Chart

Fraction	Decimal Equivalent		Fraction	Decimal Equivalent	
	Customary [in.]	Metric [mm]		Customary [in.]	Metric [mm]
	1/64	.015625		33/64	.515625
		0.3969			13.0969
1/32		.03125	17/32		.53125
	3/64	.046875			13.4938
1/16		.0625	9/16	35/64	.546875
		1.5875			13.8906
	5/64	.078125		5625	14.2875
		1.9844		37/64	.578125
3/32		.09375			14.6844
	7/64	.109375	19/32		.59375
1/8		.1250			15.0813
		2.7781	5/8	39/64	.609375
	9/64	.140625			15.4781
		3.1750			15.8750
	5/32	.15625		41/64	.640625
		3.5719			16.2719
	11/64	.171875	21/32		.65625
		4.3656			16.6688
3/16		.1875	11/16	43/64	.671875
		4.7625			17.0656
	13/64	.203125			17.4625
		5.1594		45/64	.703125
	7/32	.21875			17.8594
		5.5563	23/32		.71875
	15/64	.234375			18.2563
1/4		.250		47/64	.734375
		6.3500			18.6531
	17/64	.265625	3/4		.750
		6.7469			19.0500
	9/32	.28125		49/64	.765625
		7.1438			19.4469
	19/64	.296875	25/32		.78125
		7.5406			19.8438
5/16		.3125		51/64	.796875
		7.9375			20.2406
	21/64	.328125	13/16		.8125
		8.3384			20.6375
	11/32	.34375		53/64	.828125
		8.7313			21.0344
	23/64	.359375	27/32		.84375
		9.1281			21.4313
3/8		.3750		55/64	.859375
		9.5250			21.8281
	25/64	.390625	7/8		.8750
		9.9219			22.2250
	13/32	.40625		57/64	.890625
		10.3188			22.6219
	27/64	.421875	29/32		.90625
		10.7156			23.0188
7/16		.4375		59/64	.921875
		11.1125			23.4156
	29/64	.453125	15/16		.9375
		11.5094			23.8125
	15/32	.46875		61/64	.953125
		11.9063			24.2094
	31/64	.484375	31/32		.96875
		12.3031			24.6063
1/2		.500	1	63/64	.984375
		12.7000			25.0031
				1.000	25.4000



Project 1.3.1 – History of Measurement Rubric

Important Aspects of a WebQuest	4 points	3 points	2 points	1 point
Written	The book jacket cover is well-prepared with proper grammar and correct spelling. There is a logical flow of thought. There are no formatting errors. Proper citations are provided for all sources.	The book jacket cover is well-prepared with proper grammar and correct spelling. Some information is illogically placed. There are a few formatting errors. Some citations are not provided.	The book jacket cover is written with one or two grammatical mistakes or spelling errors. The cover does not flow logically. Proper citations are missing.	The book jacket cover has many spelling and grammatical errors. It lacks logical flow in thought; no citations are provided.
Creativity	The book jacket cover is of high technical quality with a novel approach to depicting the information using all of the talents of the team members. The jacket color, graphics, and layout attract attention; the jacket is visually appealing.	The book jacket cover is of good technical quality. It has some imaginative qualities and utilizes the talents of the team members.	The book jacket cover is of good technical quality. It is a copy of someone else's work and is developed by half of the team.	The book jacket cover is of poor technical quality. It was developed by only one team member.
Collaboration	Team cooperation was a shared responsibility and each member contributed equally to the activity, and worked to take responsibility and resolve conflicts.	In general, team cooperation was a shared responsibility; however, one member did not take full responsibility for their work or help to resolve conflicts.	Responsibility for work to be completed was led by only one member. There were many conflicts.	There was no team cooperation. No one took responsibility for the work to be completed.
Design	The book jacket cover is designed in such a way that it clearly provides an effective explanation of how measuring units came to be, what tools were used, who the major contributors were to the development of the devices and units used.	The book jacket cover is designed in such a way that it provides an explanation of how measuring units came to be, what tools were used, who the major contributors were to the development of the devices and units used.	The book jacket cover has an explanation of all elements but it does not logically flow. The layout is not consistent. OR layout consistent but some topics are not covered.	The design of the book jacket cover is haphazard and is hard to read.

Persuasion	The book jacket cover includes information about the major blunders occurred because of faulty measurement.	The book jacket cover includes some information about major blunders occurred because of faulty measurement; may not fully explain connection.	The book jacket cover includes one or two facts about what major blunders occurred because of faulty measurement.	The book jacket cover has no information to help someone make a decision about what major blunders occurred because of faulty measurement.
Data Collection	Resources are from four or more sources. Information gathered is from at least three forms, such as web-based, books, and articles. Web-based data has been checked for accuracy. Web sites are clearly identified.	Resources are from two to three sources. Information gathered is from only two forms, such as web-based and books.	Resources are from one source. Information gathered is from one form, such as web-based or CD-Rom.	There is no indication of resources used or how information is gathered.