

MODERN GRAPHICS Communication

6th Edition

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Decimal and Millimeter Equivalents

4ths	8ths	16ths	32nds	64ths	To 4 Places	To 3 Places	To 2 Places	Milli-meters	4ths	8ths	16ths	32nds	64ths	To 4 Places	To 3 Places	To 2 Places	Milli-meters
$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$	.0156	.016	.02	.397	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{9}{16}$	$\frac{17}{32}$	$\frac{33}{64}$	.5156	.516	.52	13.097
					.0312	.031	.03	.794						.5312	.531	.53	13.494
			$\frac{3}{32}$	$\frac{3}{64}$	.0469	.047	.05	1.191					$\frac{35}{64}$	.5469	.547	.55	13.891
					.0625	.062	.06	1.588				$\frac{19}{32}$	$\frac{37}{64}$	.5625	.562	.56	14.288
		$\frac{3}{16}$	$\frac{5}{32}$	$\frac{5}{64}$	.0781	.078	.08	1.984						.5781	.578	.58	14.684
					.0938	.094	.09	2.381					$\frac{39}{64}$	.5938	.594	.59	15.081
			$\frac{7}{32}$	$\frac{7}{64}$	.1094	.109	.11	2.778						.6094	.609	.61	15.478
					.1250	.125	.12	3.175				$\frac{11}{16}$	$\frac{41}{64}$	.6250	.625	.62	15.875
		$\frac{5}{16}$	$\frac{9}{32}$	$\frac{9}{64}$	.1406	.141	.14	3.572						.6406	.641	.64	16.272
					.1562	.156	.16	3.969					$\frac{43}{64}$	.6562	.656	.66	16.669
			$\frac{11}{32}$	$\frac{11}{64}$	.1719	.172	.17	4.366						.6719	.672	.67	17.066
					.1875	.188	.19	4.762					$\frac{45}{64}$	.6875	.688	.69	17.462
			$\frac{13}{32}$	$\frac{13}{64}$	.2031	.203	.20	5.159						.7031	.703	.70	17.859
					.2188	.219	.22	5.556				$\frac{23}{32}$	$\frac{47}{64}$	.7188	.719	.72	18.256
				$\frac{15}{64}$	.2344	.234	.23	5.953						.7344	.734	.73	18.653
	$\frac{3}{8}$	$\frac{5}{16}$	$\frac{9}{32}$	$\frac{17}{64}$	.2500	.250	.25	6.350				$\frac{13}{16}$	$\frac{49}{64}$	.7500	.750	.75	19.050
					.2656	.266	.27	6.747						.7656	.766	.77	19.447
			$\frac{11}{32}$	$\frac{19}{64}$	.2812	.281	.28	7.144					$\frac{51}{64}$	.7812	.781	.78	19.844
					.2969	.297	.30	7.541						.7969	.797	.80	20.241
		$\frac{7}{16}$	$\frac{13}{32}$	$\frac{21}{64}$	.3125	.312	.31	7.938					$\frac{53}{64}$	.8125	.812	.81	20.638
					.3281	.328	.33	8.334						.8281	.828	.83	21.034
			$\frac{15}{32}$	$\frac{23}{64}$	.3438	.344	.34	8.731				$\frac{27}{32}$	$\frac{55}{64}$	.8438	.844	.84	21.431
					.3594	.359	.36	9.128						.8594	.859	.86	21.828
		$\frac{9}{16}$	$\frac{17}{32}$	$\frac{25}{64}$	.3750	.375	.38	9.525				$\frac{15}{16}$	$\frac{57}{64}$	.8750	.875	.88	22.225
					.3906	.391	.39	9.922						.8906	.891	.89	22.622
			$\frac{19}{32}$	$\frac{27}{64}$	.4062	.406	.41	10.319					$\frac{59}{64}$	.9062	.906	.91	23.019
					.4219	.422	.42	10.716						.9219	.922	.92	23.416
			$\frac{21}{32}$	$\frac{29}{64}$	.4375	.438	.44	11.112					$\frac{61}{64}$	.9375	.938	.94	23.812
					.4531	.453	.45	11.509						.9531	.953	.95	24.209
		$\frac{11}{16}$	$\frac{23}{32}$	$\frac{31}{64}$	.4688	.469	.47	11.906				$\frac{31}{32}$	$\frac{63}{64}$	.9688	.969	.97	24.606
					.4844	.484	.48	12.303						.9844	.984	.98	25.003
			$\frac{25}{32}$		.5000	.500	.50	12.700						1.0000	1.000	1.00	25.400

Metric measurements may be set off directly on drawings with the metric scale. Decimal measurements may be set off directly on drawings with the engineers' scale or the decimal scale.

Symbols for Instructors' Corrections

C Show construction

D Show dimensions; show given or required data

I Improve form or spacing

H Too heavy


NH Not heavy enough

ND Not dark enough

SL Sharpen pencil or compass lead

GL Use guidelines

A Improve arrowheads

 Error in circled area

Modern Graphics Communication

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