



centimeters

inches

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
38.26	45.25	52.24	59.23	66.22	73.21	80.20	87.19	94.18	101.17	108.16	115.15	122.14	129.13	136.12	143.11	150.10	157.09	164.08	171.07	178.06	185.05	192.04	199.03	206.02	213.01	220.00	227.99	234.98	241.97	248.96	255.95	262.94	269.93	276.92	283.91	290.90	297.89	304.88	311.87	318.86	325.85	332.84	339.83	346.82	353.81	360.80	367.79	374.78	381.77	388.76	395.75	402.74	409.73	416.72	423.71	430.70	437.69	444.68	451.67	458.66	465.65	472.64	479.63	486.62	493.61	500.60	507.59	514.58	521.57	528.56	535.55	542.54	549.53	556.52	563.51	570.50	577.49	584.48	591.47	598.46	605.45	612.44	619.43	626.42	633.41	640.40	647.39	654.38	661.37	668.36	675.35	682.34	689.33	696.32	703.31	710.30	717.29	724.28	731.27	738.26	745.25	752.24	759.23	766.22	773.21	780.20	787.19	794.18	801.17	808.16	815.15	822.14	829.13	836.12	843.11	850.10	857.09	864.08	871.07	878.06	885.05	892.04	899.03	906.02	913.01	920.00	927.99	934.98	941.97	948.96	955.95	962.94	969.93	976.92	983.91	990.90	997.89	1004.88	1011.87	1018.86	1025.85	1032.84	1039.83	1046.82	1053.81	1060.80	1067.79	1074.78	1081.77	1088.76	1095.75	1102.74	1109.73	1116.72	1123.71	1130.70	1137.69	1144.68	1151.67	1158.66	1165.65	1172.64	1179.63	1186.62	1193.61	1200.60	1207.59	1214.58	1221.57	1228.56	1235.55	1242.54	1249.53	1256.52	1263.51	1270.50	1277.49	1284.48	1291.47	1298.46	1305.45	1312.44	1319.43	1326.42	1333.41	1340.40	1347.39	1354.38	1361.37	1368.36	1375.35	1382.34	1389.33	1396.32	1403.31	1410.30	1417.29	1424.28	1431.27	1438.26	1445.25	1452.24	1459.23	1466.22	1473.21	1480.20	1487.19	1494.18	1501.17	1508.16	1515.15	1522.14	1529.13	1536.12	1543.11	1550.10	1557.09	1564.08	1571.07	1578.06	1585.05	1592.04	1599.03	1606.02	1613.01	1620.00	1627.99	1634.98	1641.97	1648.96	1655.95	1662.94	1669.93	1676.92	1683.91	1690.90	1697.89	1704.88	1711.87	1718.86	1725.85	1732.84	1739.83	1746.82	1753.81	1760.80	1767.79	1774.78	1781.77	1788.76	1795.75	1802.74	1809.73	1816.72	1823.71	1830.70	1837.69	1844.68	1851.67	1858.66	1865.65	1872.64	1879.63	1886.62	1893.61	1900.60	1907.59	1914.58	1921.57	1928.56	1935.55	1942.54	1949.53	1956.52	1963.51	1970.50	1977.49	1984.48	1991.47	1998.46	2005.45	2012.44	2019.43	2026.42	2033.41	2040.40	2047.39	2054.38	2061.37	2068.36	2075.35	2082.34	2089.33	2096.32	2103.31	2110.30	2117.29	2124.28	2131.27	2138.26	2145.25	2152.24	2159.23	2166.22	2173.21	2180.20	2187.19	2194.18	2201.17	2208.16	2215.15	2222.14	2229.13	2236.12	2243.11	2250.10	2257.09	2264.08	2271.07	2278.06	2285.05	2292.04	2299.03	2306.02	2313.01	2320.00	2327.99	2334.98	2341.97	2348.96	2355.95	2362.94	2369.93	2376.92	2383.91	2390.90	2397.89	2404.88	2411.87	2418.86	2425.85	2432.84	2439.83	2446.82	2453.81	2460.80	2467.79	2474.78	2481.77	2488.76	2495.75	2502.74	2509.73	2516.72	2523.71	2530.70	2537.69	2544.68	2551.67	2558.66	2565.65	2572.64	2579.63	2586.62	2593.61	2600.60	2607.59	2614.58	2621.57	2628.56	2635.55	2642.54	2649.53	2656.52	2663.51	2670.50	2677.49	2684.48	2691.47	2698.46	2705.45	2712.44	2719.43	2726.42	2733.41	2740.40	2747.39	2754.38	2761.37	2768.36	2775.35	2782.34	2789.33	2796.32	2803.31	2810.30	2817.29	2824.28	2831.27	2838.26	2845.25	2852.24	2859.23	2866.22	2873.21	2880.20	2887.19	2894.18	2901.17	2908.16	2915.15	2922.14	2929.13	2936.12	2943.11	2950.10	2957.09	2964.08	2971.07	2978.06	2985.05	2992.04	2999.03	3006.02	3013.01	3020.00	3027.99	3034.98	3041.97	3048.96	3055.95	3062.94	3069.93	3076.92	3083.91	3090.90	3097.89	3104.88	3111.87	3118.86	3125.85	3132.84	3139.83	3146.82	3153.81	3160.80	3167.79	3174.78	3181.77	3188.76	3195.75	3202.74	3209.73	3216.72	3223.71	3230.70	3237.69	3244.68	3251.67	3258.66	3265.65	3272.64	3279.63	3286.62	3293.61	3300.60	3307.59	3314.58	3321.57	3328.56	3335.55	3342.54	3349.53	3356.52	3363.51	3370.50	3377.49	3384.48	3391.47	3398.46	3405.45	3412.44	3419.43	3426.42	3433.41	3440.40	3447.39	3454.38	3461.37	3468.36	3475.35	3482.34	3489.33	3496.32	3503.31	3510.30	3517.29	3524.28	3531.27	3538.26	3545.25	3552.24	3559.23	3566.22	3573.21	3580.20	3587.19	3594.18	3601.17	3608.16	3615.15	3622.14	3629.13	3636.12	3643.11	3650.10	3657.09	3664.08	3671.07	3678.06	3685.05	3692.04	3699.03	3706.02	3713.01	3720.00	3727.99	3734.98	3741.97	3748.96	3755.95	3762.94	3769.93	3776.92	3783.91	3790.90	3797.89	3804.88	3811.87	3818.86	3825.85	3832.84	3839.83	3846.82	3853.81	3860.80	3867.79	3874.78	3881.77	3888.76	3895.75	3902.74	3909.73	3916.72	3923.71	3930.70	3937.69	3944.68	3951.67	3958.66	3965.65	3972.64	3979.63	3986.62	3993.61	4000.60	4007.59	4014.58	4021.57	4028.56	4035.55	4042.54	4049.53	4056.52	4063.51	4070.50	4077.49	4084.48	4091.47	4098.46	4105.45	4112.44	4119.43	4126.42	4133.41	4140.40	4147.39	4154.38	4161.37	4168.36	4175.35	4182.34	4189.33	4196.32	4203.31	4210.30	4217.29	4224.28	4231.27	4238.26	4245.25	4252.24	4259.23	4266.22	4273.21	4280.20	4287.19	4294.18	4301.17	4308.16	4315.15	4322.14	4329.13	4336.12	4343.11	4350.10	4357.09	4364.08	4371.07	4378.06	4385.05	4392.04	4399.03	4406.02	4413.01	4420.00	4427.99	4434.98	4441.97	4448.96	4455.95	4462.94	4469.93	4476.92	4483.91	4490.90	4497.89	4504.88	4511.87	4518.86	4525.85	4532.84	4539.83	4546.82	4553.81	4560.80	4567.79	4574.78	4581.77	4588.76	4595.75	4602.74	4609.73	4616.72	4623.71	4630.70	4637.69	4644.68	4651.67	4658.66	4665.65	4672.64	4679.63	4686.62	4693.61	4700.60	4707.59	4714.58	4721.57	4728.56	4735.55	4742.54	4749.53	4756.52	4763.51	4770.50	4777.49	4784.48	4791.47	4798.46	4805.45	4812.44	4819.43	4826.42	4833.41	4840.40	4847.39	4854.38	4861.37	4868.36	4875.35	4882.34	4889.33	4896.32	4903.31	4910.30	4917.29	4924.28	4931.27	4938.26	4945.25	4952.24	4959.23	4966.22	4973.21	4980.20	4987.19	4994.18	5001.17	5008.16	5015.15	5022.14	5029.13	5036.12	5043.11	5050.10	5057.09	5064.08	5071.07	5078.06	5085.05	5092.04	5099.03	5106.02	5113.01	5120.00	5127.99	5134.98	5141.97	5148.96	5155.95	5162.94	5169.93	5176.92	5183.91	5190.90	5197.89	5204.88	5211.87	5218.86	5225.85	5232.84	5239.83	5246.82	5253.81	5260.80	5267.79	5274.78	5281.77	5288.76	5295.75	5302.74	5309.73	5316.72	5323.71	5330.70	5337.69	5344.68	5351.67	5358.66	5365.65	5372.64	5379.63	5386.62	5393.61	5400.60	5407.59	5414.58	5421.57	5428.56	5435.55	5442.54	5449.53	5456.52	5463.51	5470.50	5477.49	5484.48	5491.47	5498.46	5505.45	5512.44	5519.43	5526.42	5533.41	5540.40	5547.39	5554.38	5561.37	5568.36	5575.35	5582.34	5589.33	5596.32	5603.31	5610.30	5617.29	5624.28	5631.27	5638.26	5645.25	5652.24	5659.23	5666.22	5673.21	5680.20	5687.19	5694.18	5701.17	5708.16	5715.15	5722.14	5729.13	5736.12	5743.11	5750.10	5757.09	5764.08	5771.07	5778.06	5785.05	5792.04	5799.03	5806.02	5813.01	5820.00	5827.99	5834.98	5841.97	5848.96	5855.95	5862.94	5869.93	5876.92	5883.91	5890.90	5897.89	5904.88	5911.87	5918.86	5925.85	5932.84	5939.83	5946.82	5953.81	5960.80	5967.79	5974.78	5981.77	5988.76	5995.75	6002.74	6009.73	6016.72	6023.71	6030.70	6037.69	6044.68	6051.67	6058.66	6065.65	6072.64	6079.63	6086.62	6093.61	6100.60	6107.59	6114.58	6121.57	6128.56	6135.55	6142.54	6149.53	6156.52	6163.51	6170.50	6177.49	6184.48	6191.47	6198.46	6205.45	6212.44	6219.43	6226.42	6233.41	6240.40	6247.39	6254.38	6261.37	6268.36	6275.35	6282.34	6289.33	6296.32	6303.31	6310.30	6317.29	6324.28	6331.27	6338.26	6345.25	6352.24	6359.23	6366.22	6373.21	6380.20	6387.19	6394.18	6401.17	6408.16	6415.15	6422.14	6429.13	6436.12	6443.11	6450.10	6457.09	6464.08	6471.07	6478.06	6485.05	6492.04	6499.03	6506.02	6513.01	6520.00	6527.99	6534.98	6541.97	6548.96	6555.95	6562.94	6569.93	6576.92	6583.91	6590.90	6597.89	6604.88	6611.87	6618.86	6625.85	6632.84	6639.83	6646.82	6653.81	6660.80	6667.79	6674.78	6681.77	6688.76	6695.75	6702.74	6709.73	6716.72	6723.71	6730.70	6737.69	6744.68	6751.67	6758.66	6765.65	6772.64	6779.63	6786.62	6793.61	6800.60	6807.59	6814.58	6821.57	6828.56	6835.55	6842.54	6849.53	6856.52	6863.51	6870.50	6877.49	6884.48	6891.47	6898.46	6905.45	6912.44	6919.43	6926.42	6933.41	6940.40	6947.39	6954.38	6961.37	6968.36	6975.35	6982.34	6989.33	6996.32	7003.31	7010.30	7017.29	7024.28	7031.27	7038.26	7045.25	7052.24	7059.23	7066.22	7073.21	7080.20	7087.19	7094.18	7101.17	7108.16	7115.15	7122.14	7129.13	713