
Stairs calculation - precision 1/64 inch

Input :

Total rise - Floor to floor 9' 0"
 Total run 12' 6"
 Maximum riser height 8 & 3/4"
 Minimum riser height 7"
 Maximum tread run 11 & 1/2"
 Minimum tread run 10"
 Tread thickness 3/4"
 Tread overhang 1/2"
 Floor finish thickness - base 5/8"
 Floor finish thickness - top 5/8"
 Finished ceiling height 7' 10"

Output :

Number of risers 15
 Height of risers 7 & 13/64"
 Height of first riser 7 & 5/64"
 Number of treads 14
 Depth of tread cuts 10 & 23/32"
 Depth of treads w/ overhang 11 & 7/32"
 Tread plus Rise (s/b 17~18) 1' 5 & 59/64"
 Slope / foot (rise / run) 8 & 41/64"
 Pitch degrees 35.8
 Inverse degrees 54.2
 Length of stringers 15' 4 & 53/64"
 Side area of triangle ft^2 56' 3"

* Schedule of headroom

Riser #	Headroom	Stairwell opening
1	7' 3 & 47/64"	12' 6"
2	6' 9 & 15/32"	11' 7 & 9/32"
3	6' 3 & 13/64"	10' 8 & 37/64"
4	5' 8 & 15/16"	9' 9 & 55/64"
5	5' 2 & 43/64"	8' 11 & 9/64"
6	4' 8 & 13/32"	8' 0 & 27/64"
7	4' 2 & 9/64"	7' 1 & 23/32"
8	3' 7 & 55/64"	6' 3"
9	3' 1 & 19/32"	5' 4 & 9/32"
10	2' 7 & 21/64"	4' 5 & 37/64"
11	2' 1 & 1/16"	3' 6 & 55/64"
12	1' 6 & 51/64"	2' 8 & 9/64"
13	1' 0 & 17/32"	1' 9 & 27/64"
14	6 & 17/64"	10 & 23/32"
15	0/64"	0/64"

Loan Summary calculation

Input :

Amount 10000
 Months 240

Interest % / year 8.5

Output :

Monthly payment 86.78
 Yearly payment 1,041.39
 Total interest 10,827.76
 Total payments 20,827.76

Loan Schedule calculation

Input :

Amount 10000
 Months 240
 Interest % / year 8.5
 Start Month/Year 5/04

Output :

Monthly payment 86.78
 Yearly payment 1,041.39
 Total interest 10,827.76
 Total payments 20,827.76

Period	Interest	Principal
001 05/04	70.83	15.95
002 06/04	70.72	16.06
003 07/04	70.61	16.18
004 08/04	70.49	16.29
005 09/04	70.38	16.41
006 10/04	70.26	16.52
007 11/04	70.14	16.64
008 12/04	70.03	16.76
Calendar year	563.46	130.80

Period	Interest	Principal
009 01/05	69.91	16.88
010 02/05	69.79	17.00
011 03/05	69.67	17.12
012 04/05	69.55	17.24
013 05/05	69.42	17.36
014 06/05	69.30	17.48
015 07/05	69.18	17.61
016 08/05	69.05	17.73
017 09/05	68.93	17.86
018 10/05	68.80	17.98
019 11/05	68.67	18.11
020 12/05	68.54	18.24
Calendar year	830.80	210.58

Period	Interest	Principal
021 01/06	68.42	18.37
022 02/06	68.29	18.50
023 03/06	68.15	18.63
024 04/06	68.02	18.76
025 05/06	67.89	18.89

026	06/06	67.76	19.03
027	07/06	67.62	19.16
028	08/06	67.48	19.30
029	09/06	67.35	19.43
030	10/06	67.21	19.57
031	11/06	67.07	19.71
032	12/06	66.93	19.85
Calendar year	812.19		229.20

Period	Interest	Principal	
033	01/07	66.79	19.99
034	02/07	66.65	20.13
035	03/07	66.51	20.27
036	04/07	66.36	20.42
037	05/07	66.22	20.56
038	06/07	66.07	20.71
039	07/07	65.93	20.86
040	08/07	65.78	21.00
041	09/07	65.63	21.15
042	10/07	65.48	21.30
043	11/07	65.33	21.45
044	12/07	65.18	21.60
Calendar year	791.93		249.46

Period	Interest	Principal	
045	01/08	65.02	21.76
046	02/08	64.87	21.91
047	03/08	64.72	22.07
048	04/08	64.56	22.22
049	05/08	64.40	22.38
050	06/08	64.24	22.54
051	07/08	64.08	22.70
052	08/08	63.92	22.86
053	09/08	63.76	23.02
054	10/08	63.60	23.18
055	11/08	63.43	23.35
056	12/08	63.27	23.51
Calendar year	769.88		271.51

Period	Interest	Principal	
057	01/09	63.10	23.68
058	02/09	62.93	23.85
059	03/09	62.76	24.02
060	04/09	62.59	24.19
061	05/09	62.42	24.36
062	06/09	62.25	24.53
063	07/09	62.08	24.71
064	08/09	61.90	24.88
065	09/09	61.73	25.06
066	10/09	61.55	25.23
067	11/09	61.37	25.41

068	12/09	61.19	25.59
Calendar year		745.88	295.51

Period		Interest	Principal
069	01/10	61.01	25.77
070	02/10	60.83	25.96
071	03/10	60.64	26.14
072	04/10	60.46	26.33
073	05/10	60.27	26.51
074	06/10	60.08	26.70
075	07/10	59.89	26.89
076	08/10	59.70	27.08
077	09/10	59.51	27.27
078	10/10	59.32	27.46
079	11/10	59.12	27.66
080	12/10	58.93	27.85
Calendar year		719.76	321.63

Period		Interest	Principal
081	01/11	58.73	28.05
082	02/11	58.53	28.25
083	03/11	58.33	28.45
084	04/11	58.13	28.65
085	05/11	57.93	28.86
086	06/11	57.72	29.06
087	07/11	57.52	29.27
088	08/11	57.31	29.47
089	09/11	57.10	29.68
090	10/11	56.89	29.89
091	11/11	56.68	30.10
092	12/11	56.47	30.32
Calendar year		691.33	350.05

Period		Interest	Principal
093	01/12	56.25	30.53
094	02/12	56.03	30.75
095	03/12	55.82	30.97
096	04/12	55.60	31.19
097	05/12	55.38	31.41
098	06/12	55.15	31.63
099	07/12	54.93	31.85
100	08/12	54.70	32.08
101	09/12	54.48	32.31
102	10/12	54.25	32.53
103	11/12	54.02	32.76
104	12/12	53.79	33.00
Calendar year		660.39	381.00

Period		Interest	Principal
105	01/13	53.55	33.23

106	02/13	53.32	33.47
107	03/13	53.08	33.70
108	04/13	52.84	33.94
109	05/13	52.60	34.18
110	06/13	52.36	34.42
111	07/13	52.11	34.67
112	08/13	51.87	34.91
113	09/13	51.62	35.16
114	10/13	51.37	35.41
115	11/13	51.12	35.66
116	12/13	50.87	35.91
Calendar year		626.72	414.67

Period	Interest	Principal	
117	01/14	50.61	36.17
118	02/14	50.36	36.42
119	03/14	50.10	36.68
120	04/14	49.84	36.94
121	05/14	49.58	37.20
122	06/14	49.32	37.47
123	07/14	49.05	37.73
124	08/14	48.78	38.00
125	09/14	48.51	38.27
126	10/14	48.24	38.54
127	11/14	47.97	38.81
128	12/14	47.69	39.09
Calendar year		590.06	451.33

Period	Interest	Principal	
129	01/15	47.42	39.36
130	02/15	47.14	39.64
131	03/15	46.86	39.92
132	04/15	46.58	40.21
133	05/15	46.29	40.49
134	06/15	46.00	40.78
135	07/15	45.71	41.07
136	08/15	45.42	41.36
137	09/15	45.13	41.65
138	10/15	44.84	41.95
139	11/15	44.54	42.24
140	12/15	44.24	42.54
Calendar year		550.17	491.22

Period	Interest	Principal	
141	01/16	43.94	42.84
142	02/16	43.63	43.15
143	03/16	43.33	43.45
144	04/16	43.02	43.76
145	05/16	42.71	44.07
146	06/16	42.40	44.38
147	07/16	42.08	44.70

148	08/16	41.77	45.01
149	09/16	41.45	45.33
150	10/16	41.13	45.65
151	11/16	40.80	45.98
152	12/16	40.48	46.30
Calendar year	506.75	534.64	

Period	Interest	Principal	
153	01/17	40.15	46.63
154	02/17	39.82	46.96
155	03/17	39.49	47.29
156	04/17	39.15	47.63
157	05/17	38.82	47.97
158	06/17	38.48	48.31
159	07/17	38.13	48.65
160	08/17	37.79	48.99
161	09/17	37.44	49.34
162	10/17	37.09	49.69
163	11/17	36.74	50.04
164	12/17	36.39	50.40
Calendar year	459.49	581.90	

Period	Interest	Principal	
165	01/18	36.03	50.75
166	02/18	35.67	51.11
167	03/18	35.31	51.47
168	04/18	34.94	51.84
169	05/18	34.58	52.21
170	06/18	34.21	52.58
171	07/18	33.83	52.95
172	08/18	33.46	53.32
173	09/18	33.08	53.70
174	10/18	32.70	54.08
175	11/18	32.32	54.46
176	12/18	31.93	54.85
Calendar year	408.06	633.33	

Period	Interest	Principal	
177	01/19	31.54	55.24
178	02/19	31.15	55.63
179	03/19	30.76	56.02
180	04/19	30.36	56.42
181	05/19	29.96	56.82
182	06/19	29.56	57.22
183	07/19	29.15	57.63
184	08/19	28.75	58.04
185	09/19	28.33	58.45
186	10/19	27.92	58.86
187	11/19	27.50	59.28
188	12/19	27.08	59.70
Calendar year	352.08	689.31	

Period	Interest	Principal
189 01/20	26.66	60.12
190 02/20	26.23	60.55
191 03/20	25.81	60.98
192 04/20	25.37	61.41
193 05/20	24.94	61.84
194 06/20	24.50	62.28
195 07/20	24.06	62.72
196 08/20	23.62	63.17
197 09/20	23.17	63.61
198 10/20	22.72	64.06
199 11/20	22.26	64.52
200 12/20	21.81	64.98
Calendar year	291.15	750.24

Period	Interest	Principal
201 01/21	21.35	65.44
202 02/21	20.88	65.90
203 03/21	20.42	66.37
204 04/21	19.95	66.84
205 05/21	19.47	67.31
206 06/21	19.00	67.79
207 07/21	18.52	68.27
208 08/21	18.03	68.75
209 09/21	17.55	69.24
210 10/21	17.05	69.73
211 11/21	16.56	70.22
212 12/21	16.06	70.72
Calendar year	224.83	816.55

Period	Interest	Principal
213 01/22	15.56	71.22
214 02/22	15.06	71.72
215 03/22	14.55	72.23
216 04/22	14.04	72.74
217 05/22	13.52	73.26
218 06/22	13.00	73.78
219 07/22	12.48	74.30
220 08/22	11.96	74.83
221 09/22	11.43	75.36
222 10/22	10.89	75.89
223 11/22	10.35	76.43
224 12/22	9.81	76.97
Calendar year	152.66	888.73

Period	Interest	Principal
225 01/23	9.27	77.51
226 02/23	8.72	78.06
227 03/23	8.17	78.62
228 04/23	7.61	79.17

229	05/23	7.05	79.73
230	06/23	6.48	80.30
231	07/23	5.91	80.87
232	08/23	5.34	81.44
233	09/23	4.76	82.02
234	10/23	4.18	82.60
235	11/23	3.60	83.18
236	12/23	3.01	83.77
Calendar year	74.10		967.29

Period	Interest	Principal
237 01/24	2.42	84.37
238 02/24	1.82	84.96
239 03/24	1.22	85.57
240 04/24	.61	86.17
Calendar year	6.06	341.07