

The King's Chamber Game Diagrams

Ian Douglas, B.Sc

ian@zti.co.za

ORCID: <https://orcid.org/0000-0002-8452-7111>

28 May 2022

Version 1.0.0

DOI: <https://doi.org/10.5281/zenodo.6590181>

This work is licensed under the Creative Commons Attribution 4.0 International License.

Unqid: 59d0db215262e025a1c604468ac96383

Please check via DOI for latest version.

Diagrams for The Kings Chamber Game, DOI:10.5281/zenodo.6570342

Keywords: Egyptology, Giza, Great Pyramid, π , ϕ , golden ratio, history of mathematics.

Best viewed and printed in colour.

Revision history:

1.0.0 * 28 May 2022 * Initial version.

Table of Figures

Figure 1: The King's Chamber in the Great Pyramid, unfolded.....	3
Figure 2: π from the first four rows.....	3
Figure 3: π with more digits.....	4
Figure 4: π to seven digits.....	4
Figure 5: π to seven digits as a puzzle.....	5
Figure 6: $\pi/2$	5
Figure 7: ϕ^2 from the bottom row and floor.....	6
Figure 8: ϕ^2 using walls.....	6
Figure 9: ϕ using top row and wall, version 1.....	7
Figure 10: ϕ using top row and wall, version 2.....	7
Figure 11: $\phi^2 + 1$ as you enter the chamber.....	8
Figure 12: e from North and East walls.....	8
Figure 13: e with more digits.....	9
Figure 14: e , alternate.....	9
Figure 15: e as a puzzle.....	10
Figure 16: $e - 1$, the cubit:foot ratio, and more.....	10
Figure 17: ρ as a puzzle.....	11
Figure 18: $\sqrt{2}$	11
Figure 19: $\sqrt{3}$	12
Figure 20: $\sqrt{5}$	12
Figure 21: $\sqrt{\pi}$	13

Figure 22: $\sqrt[3]{2}$	13
Figure 23: $\sqrt[3]{3}$	14
Figure 24: $\sqrt[3]{5}$	14
Figure 25: The Fibonacci series.....	15
Figure 26: c, The speed of light, $\times 10^8$ m/s.....	15
Figure 27: α , the Fine Structure Constant, $\times 10^3$	16
Figure 28: $\frac{1}{2}$	16
Figure 29: $\frac{1}{3}$	17
Figure 30: $\frac{1}{4}$	17
Figure 31: $\frac{1}{5}$	18
Figure 32: $\frac{1}{6}$	18
Figure 33: $\frac{1}{7}$	19
Figure 34: $\frac{1}{8}$	19
Figure 35: $\frac{1}{9}$	20
Figure 36: $\frac{1}{10}$	20
Figure 37: $\frac{1}{11}$	21
Figure 38: 1^2	21
Figure 39: 2^2	22
Figure 40: 3^2	22
Figure 41: 4^2	23
Figure 42: 5^2	23
Figure 43: 6^2	24
Figure 44: 7^2	24
Figure 45: 8^2	25
Figure 46: 9^2	25
Figure 47: 10^2	26
Figure 48: Progressive squares.....	26
Figure 49: Freemasons #333.....	27

The King's Chamber
Copyright © iandoug.com 2022

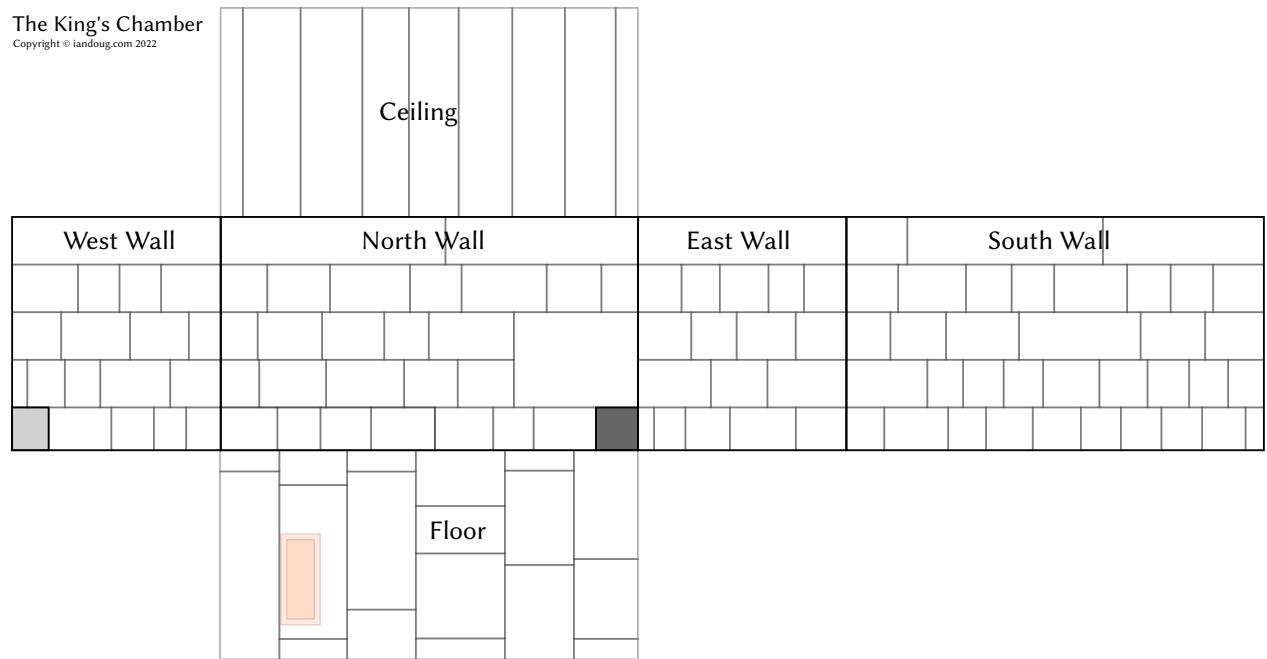


Figure 1: The King's Chamber in the Great Pyramid, unfolded

The King's Chamber
Copyright © iandoug.com 2022

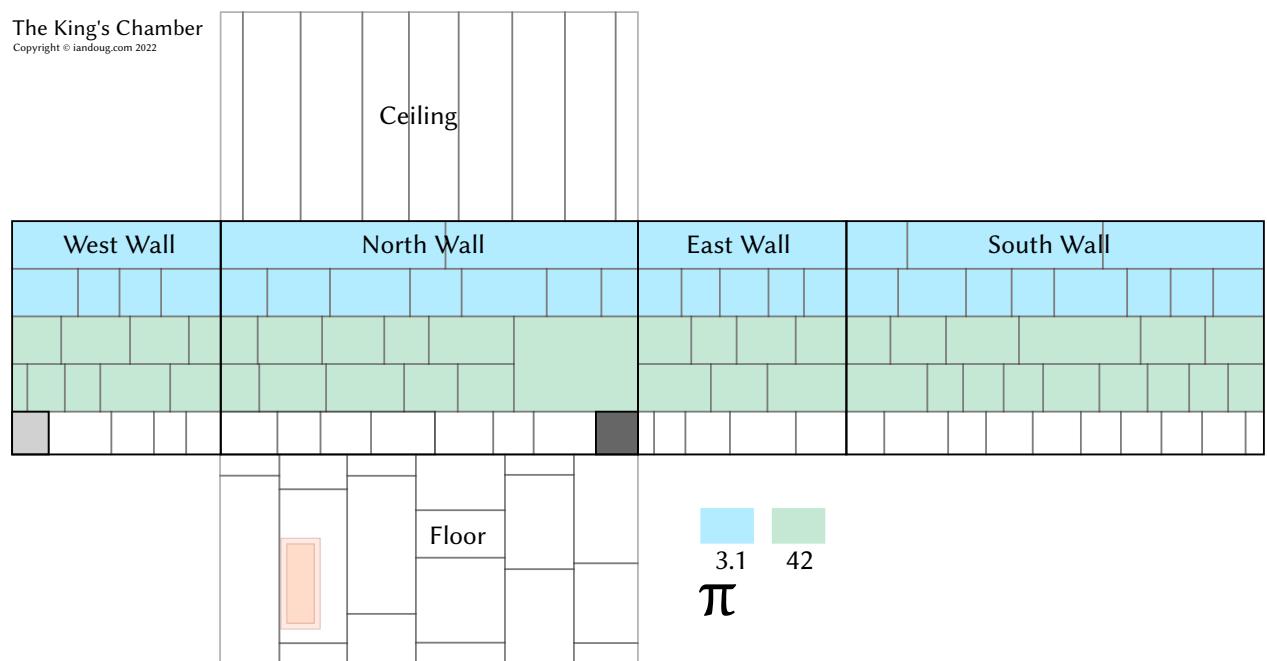
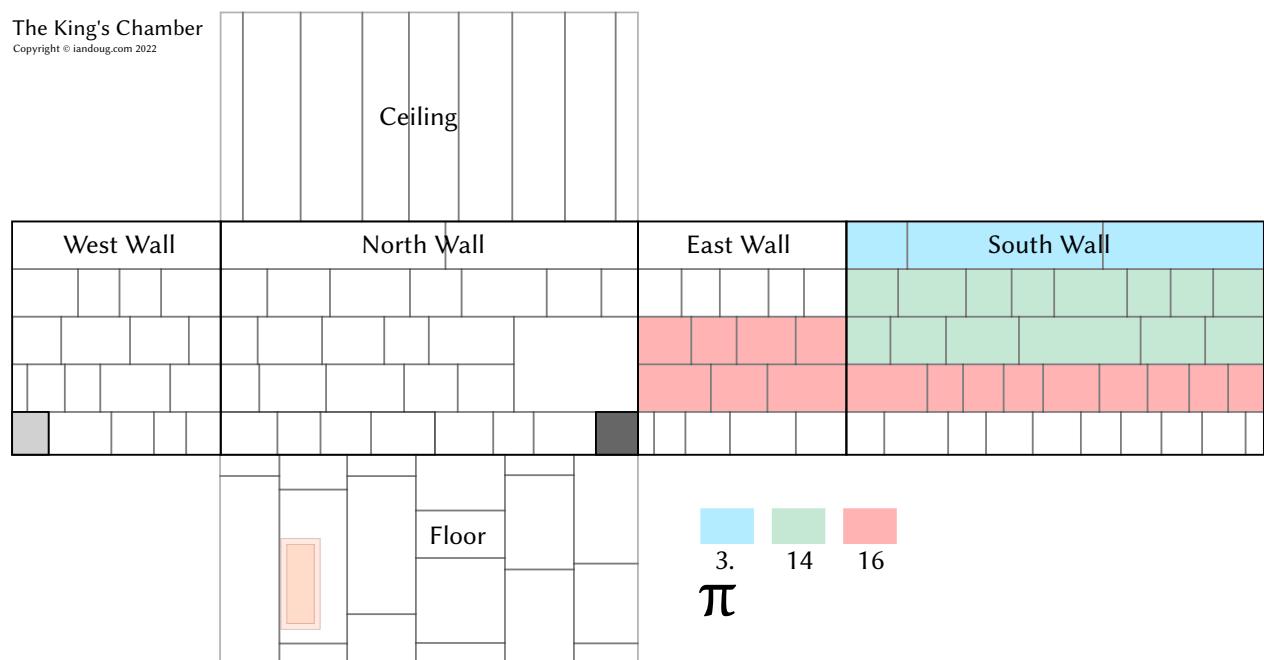
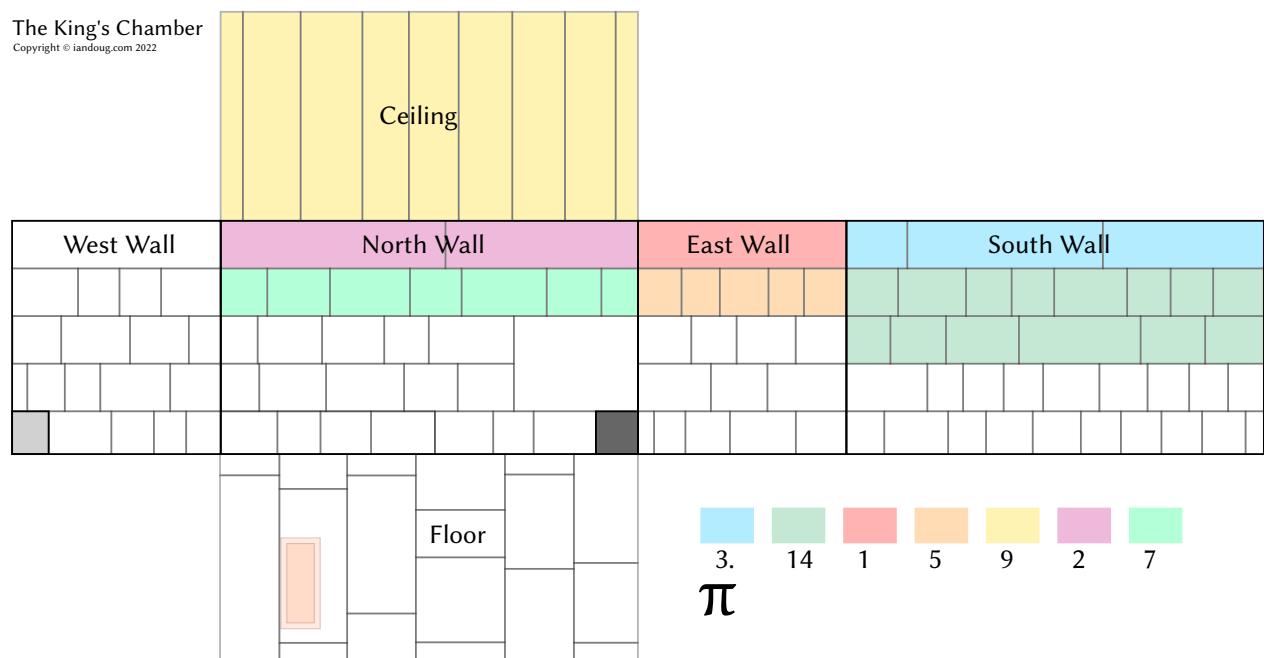
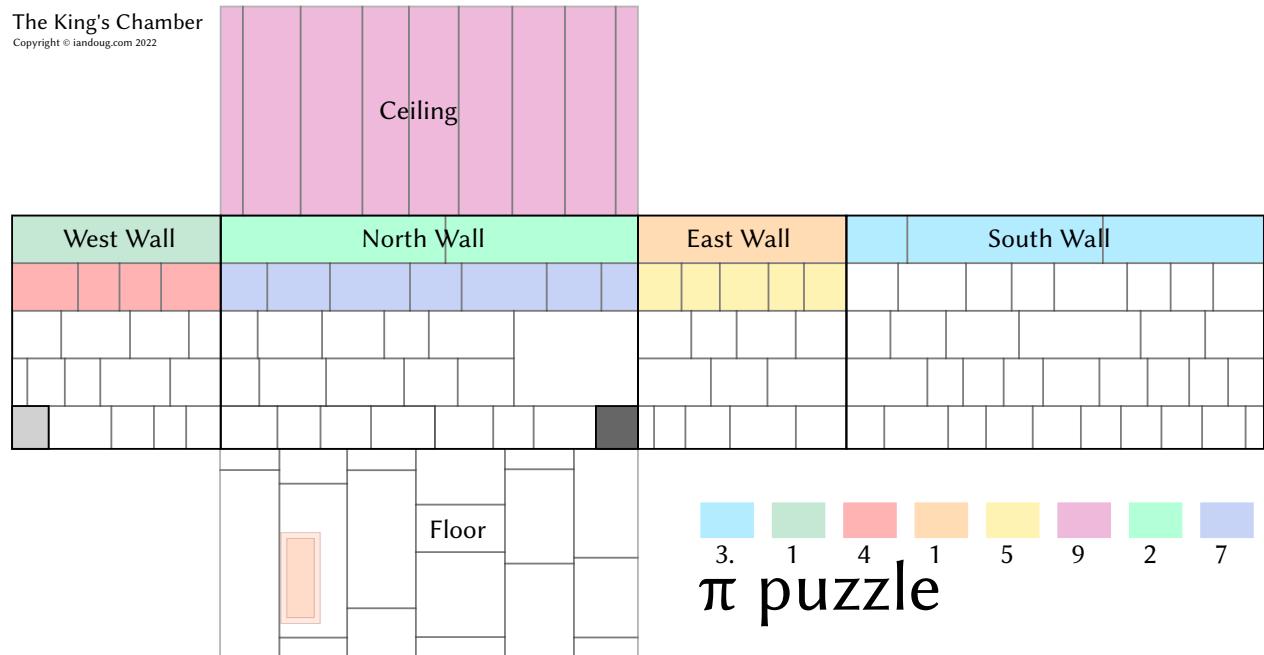
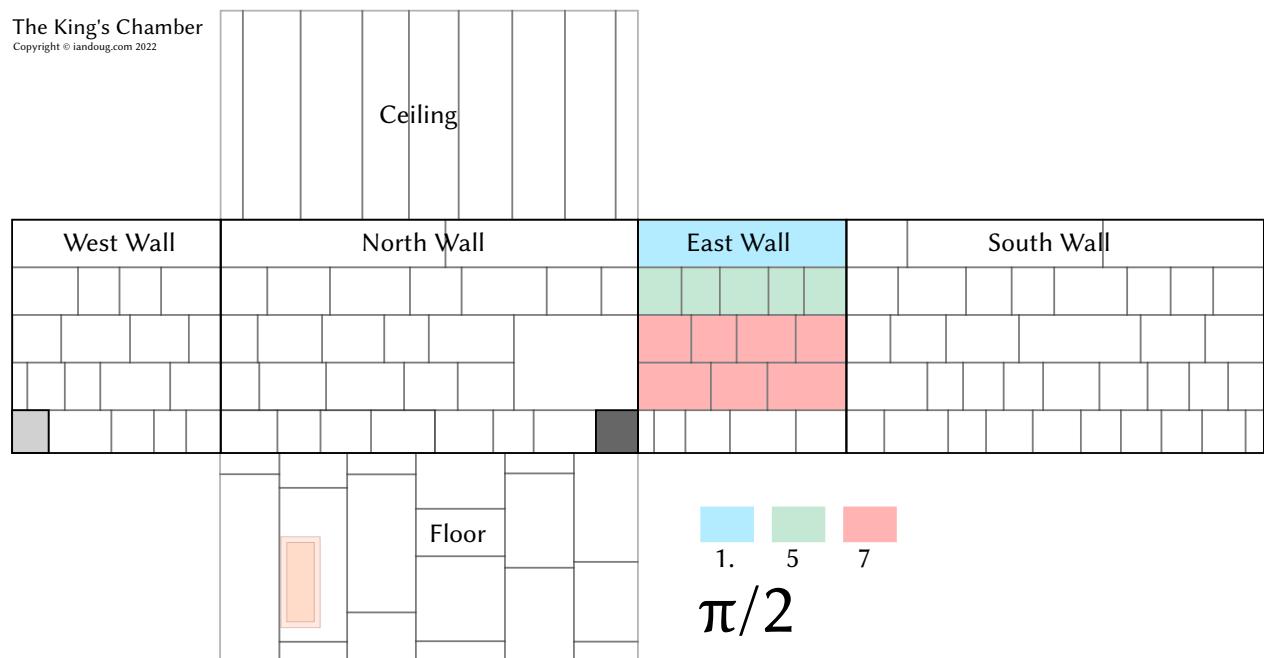
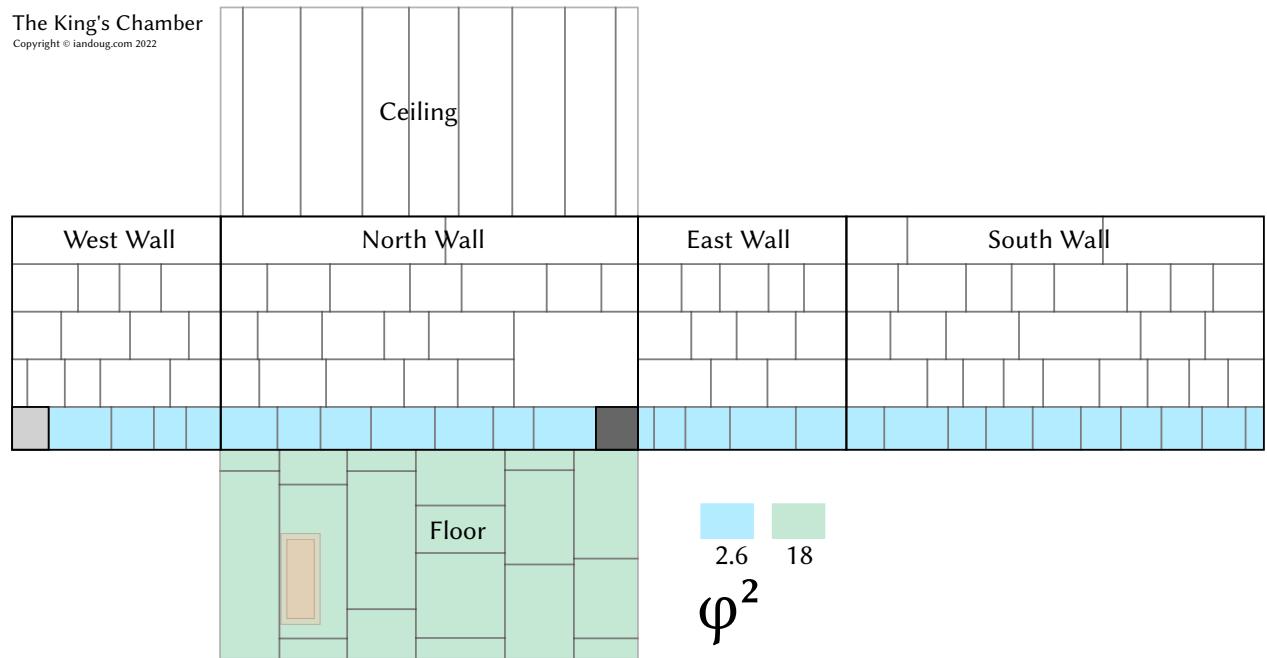
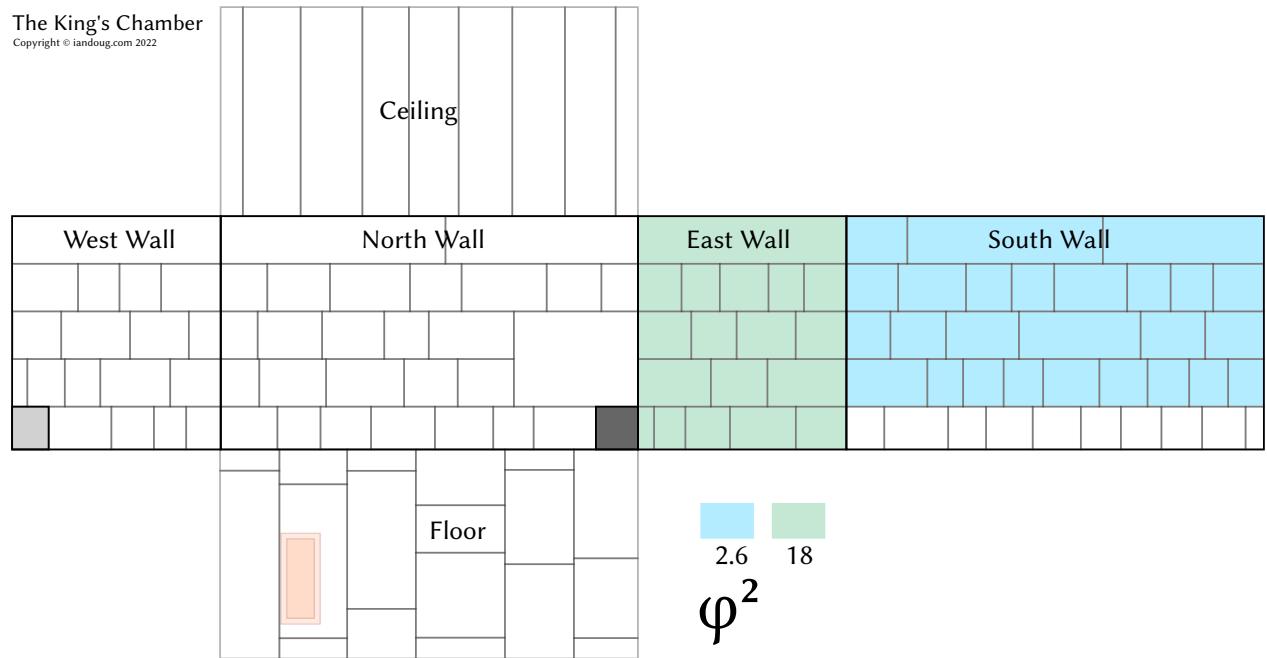
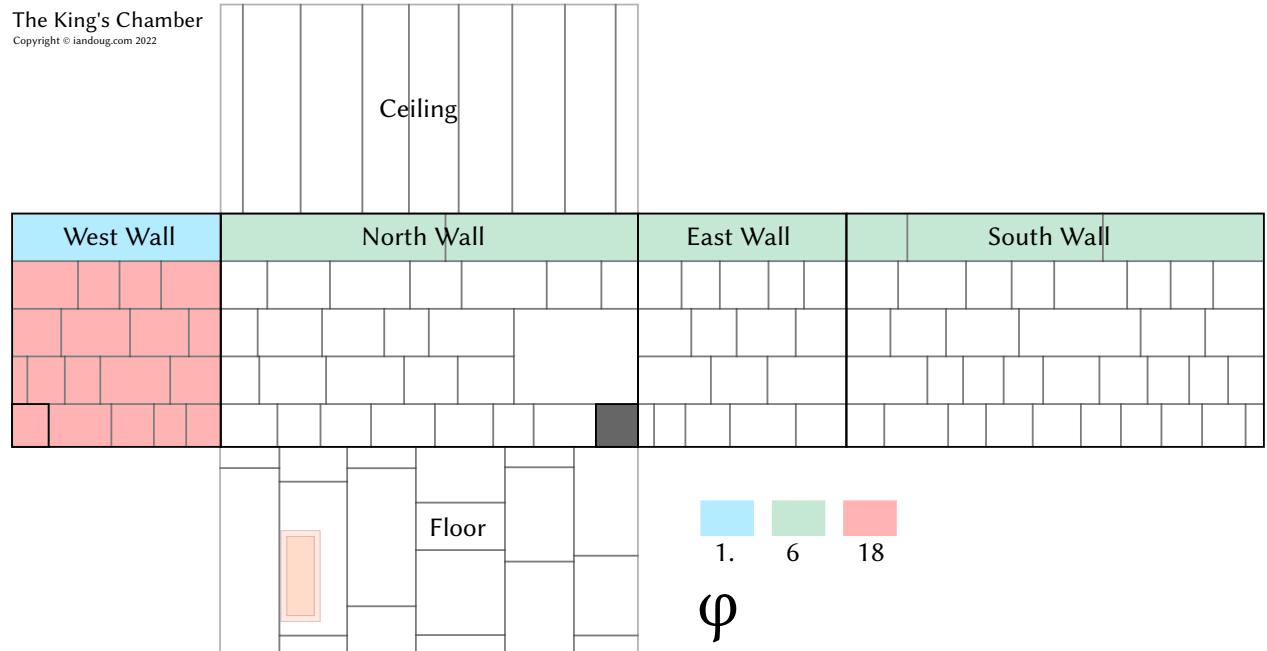
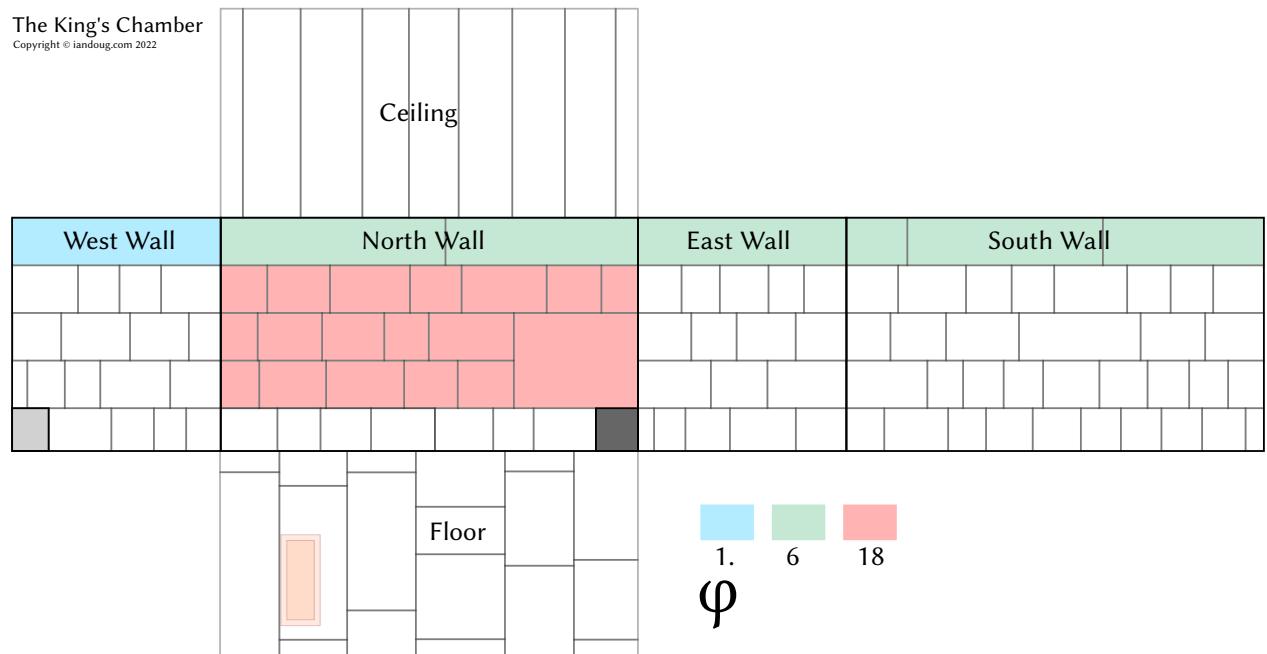


Figure 2: π from the first four rows

Figure 3: π with more digitsFigure 4: π to seven digits

Figure 5: π to seven digits as a puzzleFigure 6: $\pi/2$

Figure 7: φ^2 from the bottom row and floorFigure 8: φ^2 using walls

Figure 9: φ using top row and wall, version 1Figure 10: φ using top row and wall, version 2

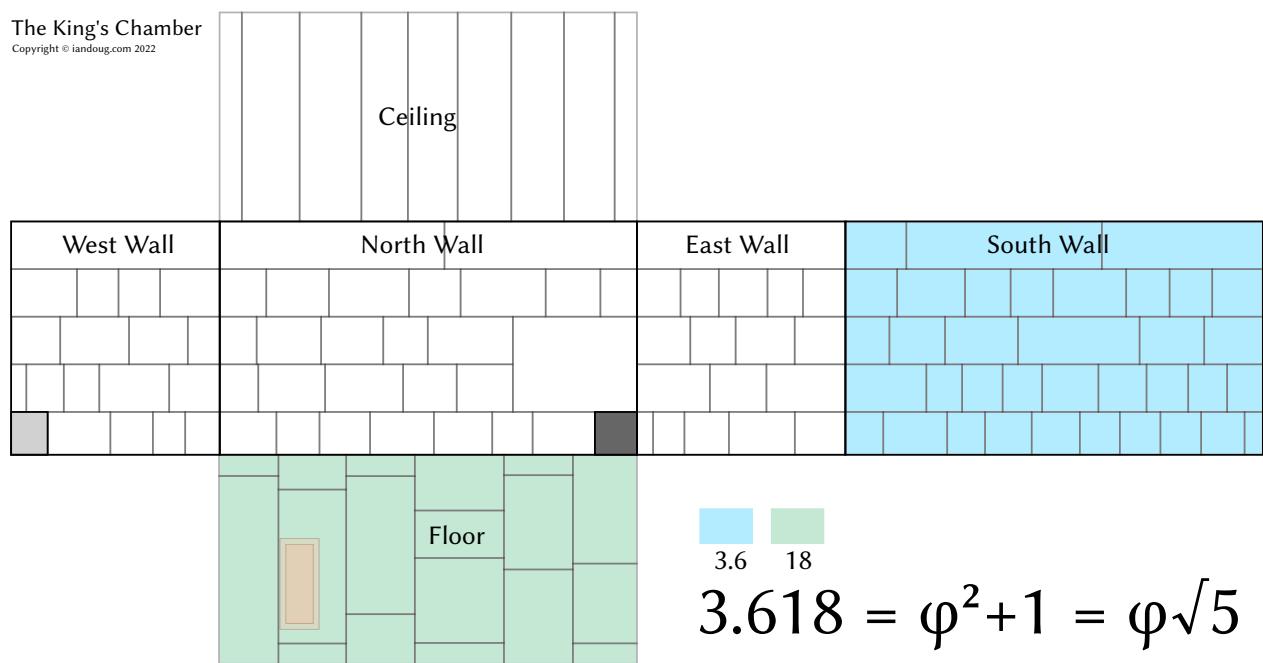


Figure 11: $\varphi^2 + 1$ as you enter the chamber

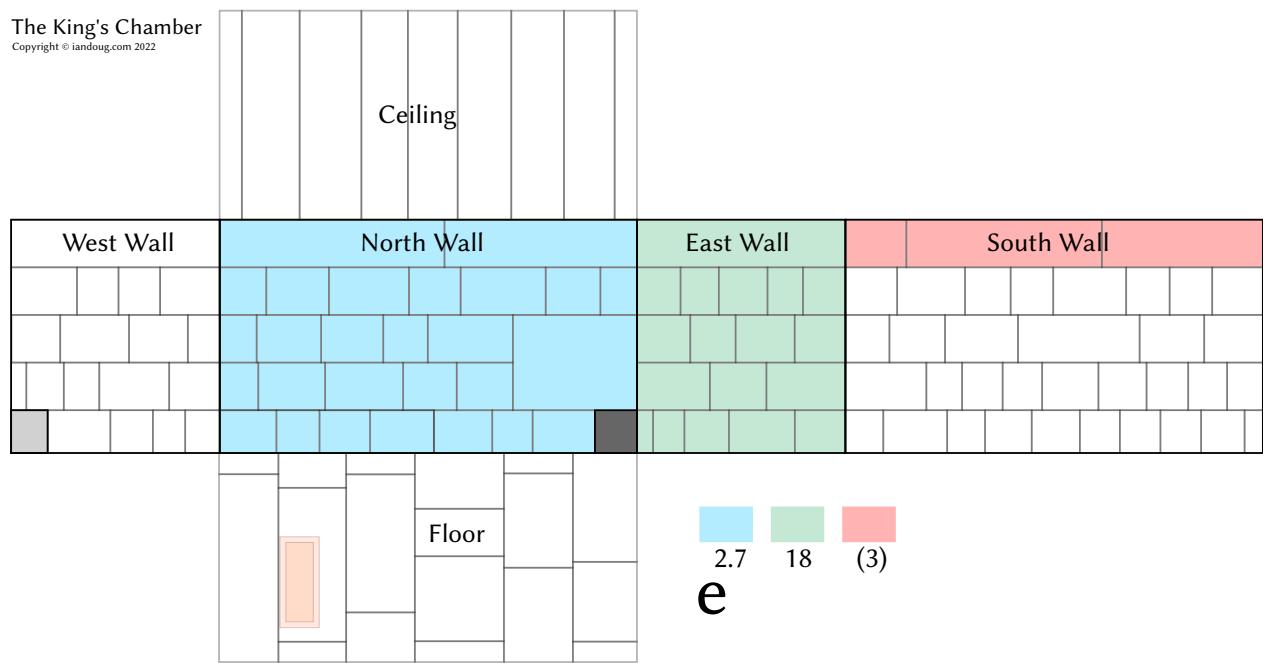


Figure 12: e from North and East walls

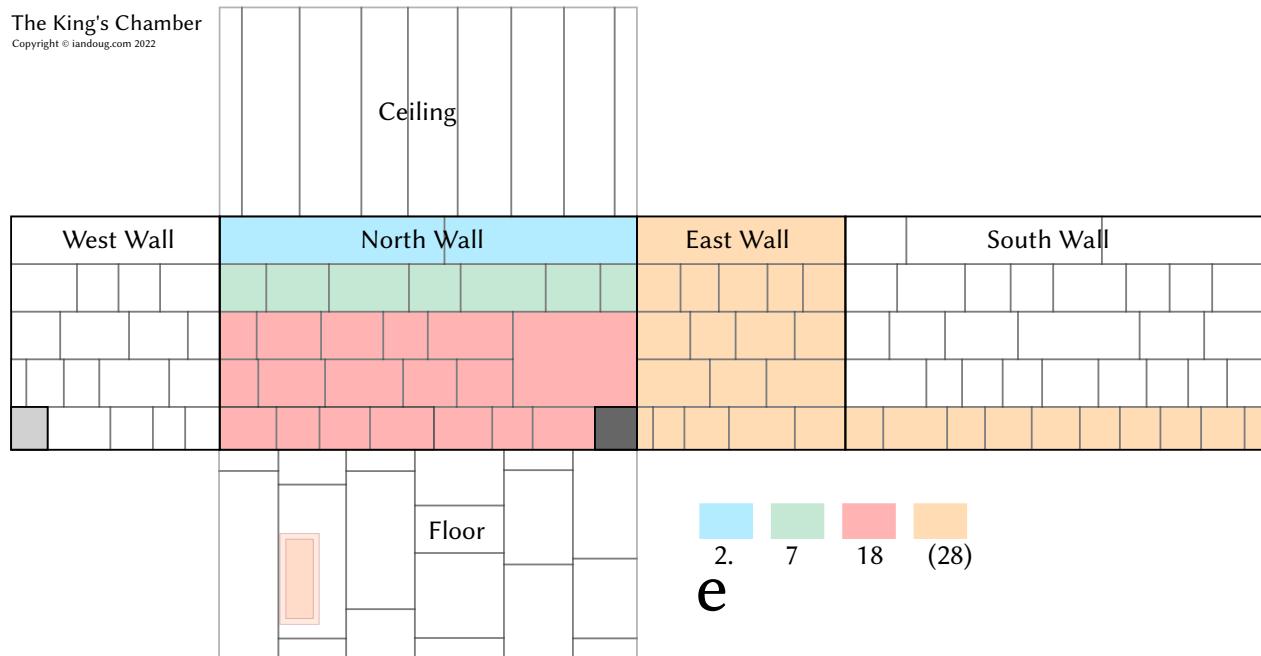


Figure 13: e with more digits

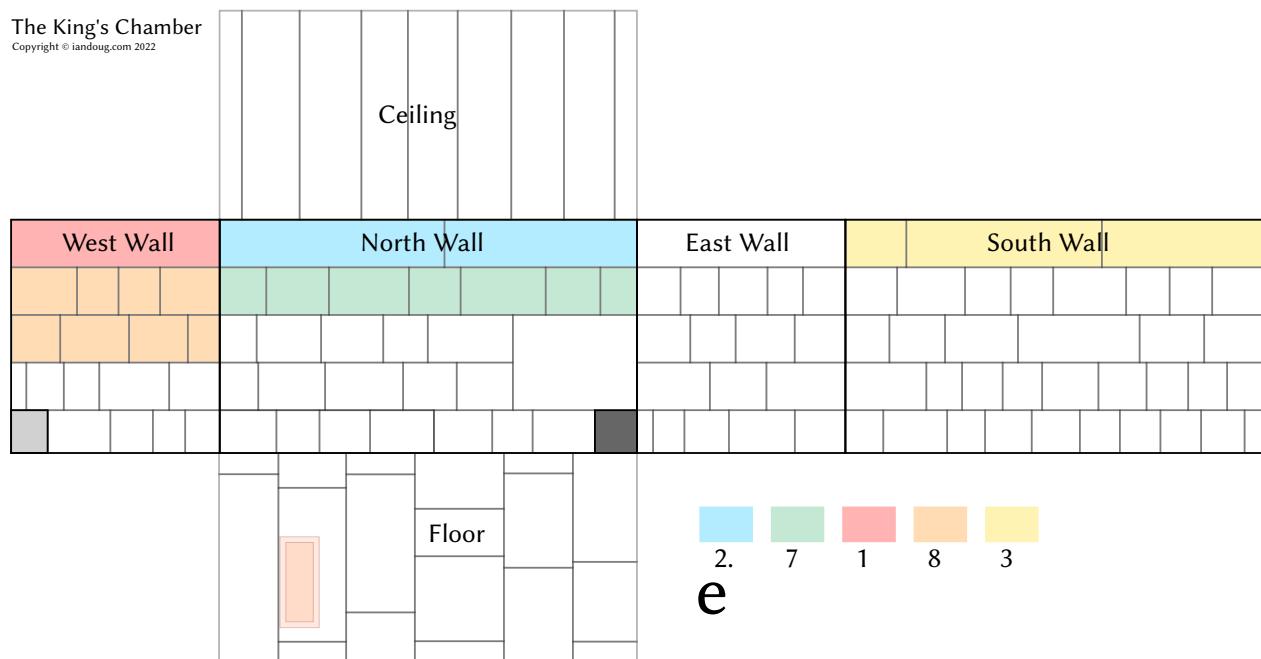


Figure 14: e, alternate

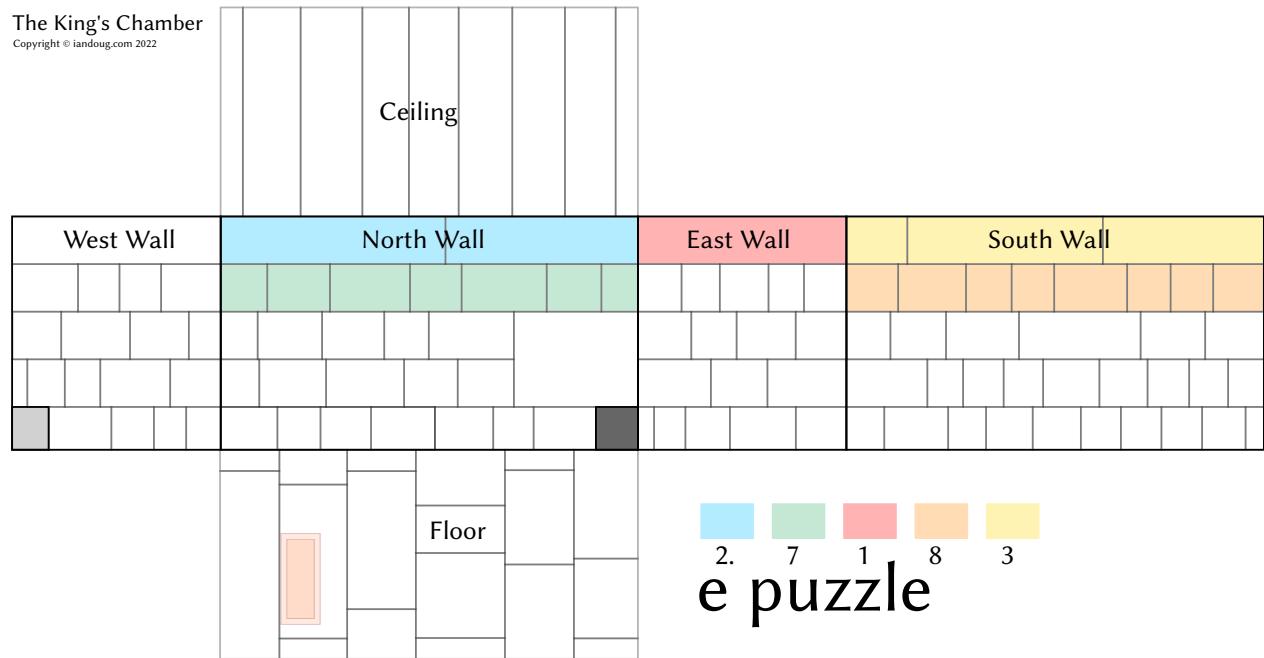


Figure 15: e as a puzzle

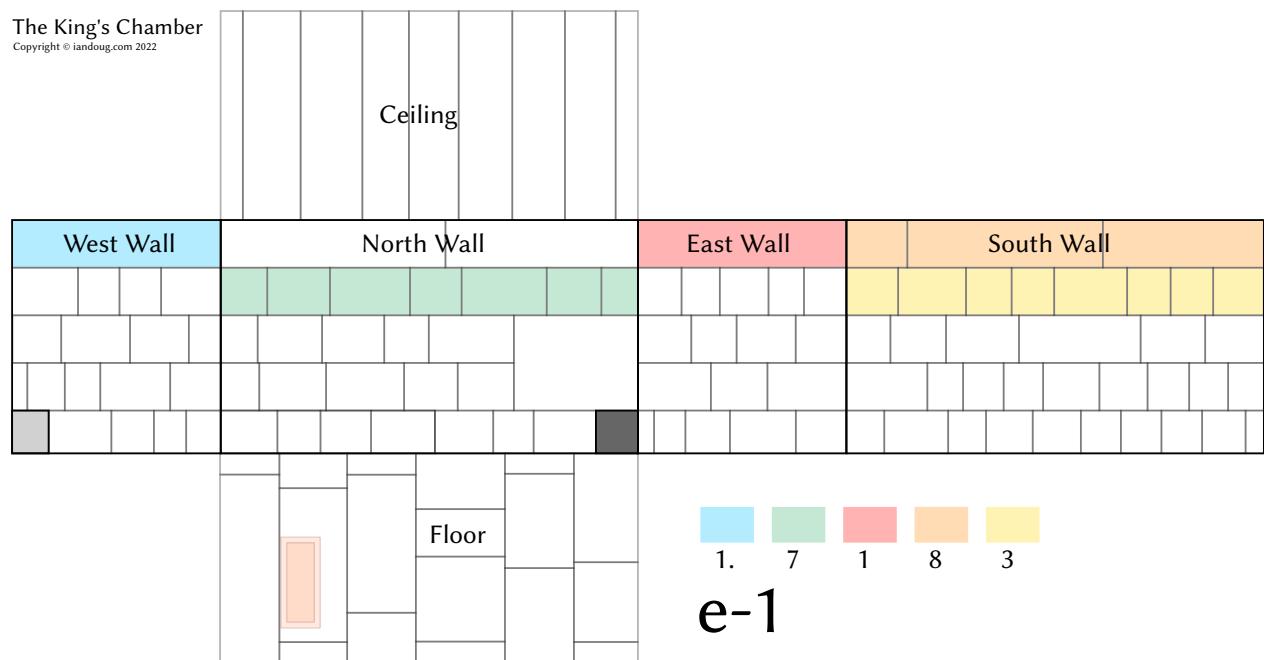
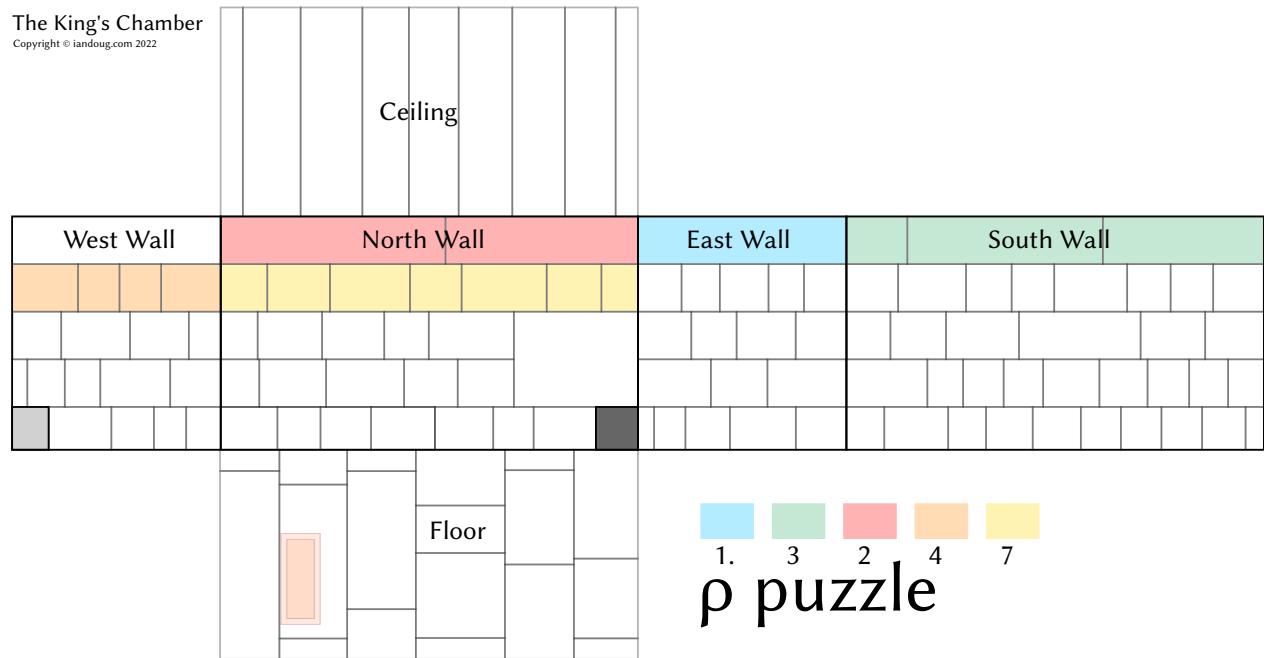
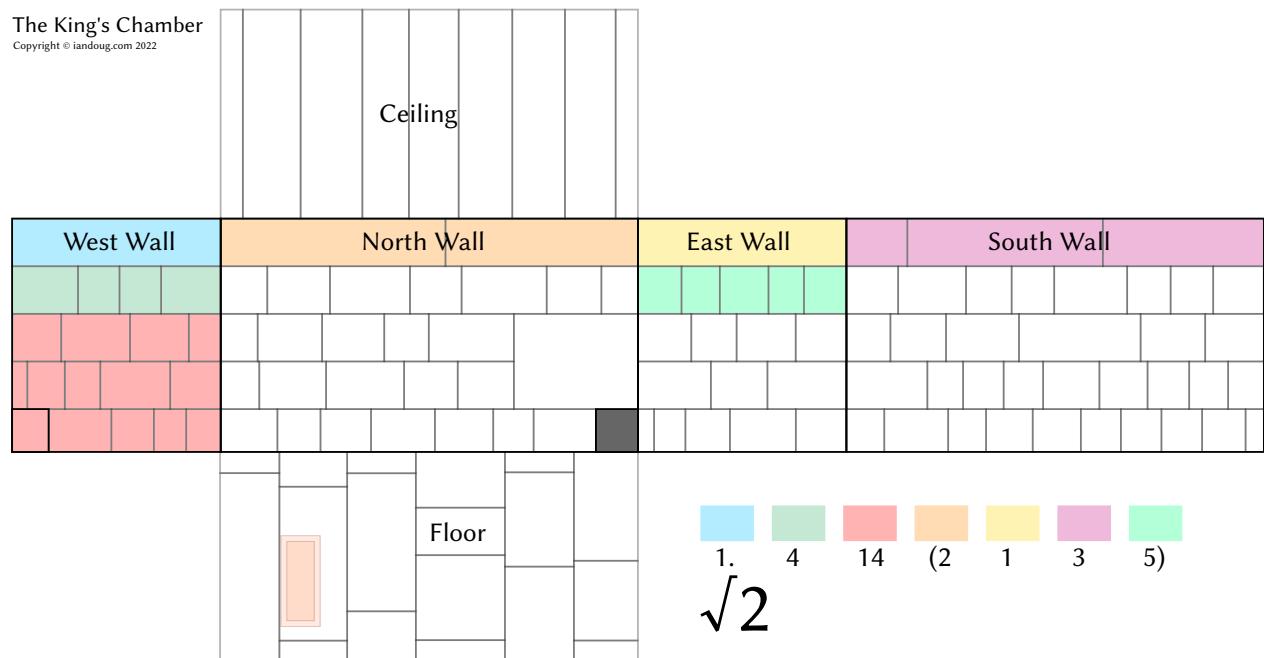
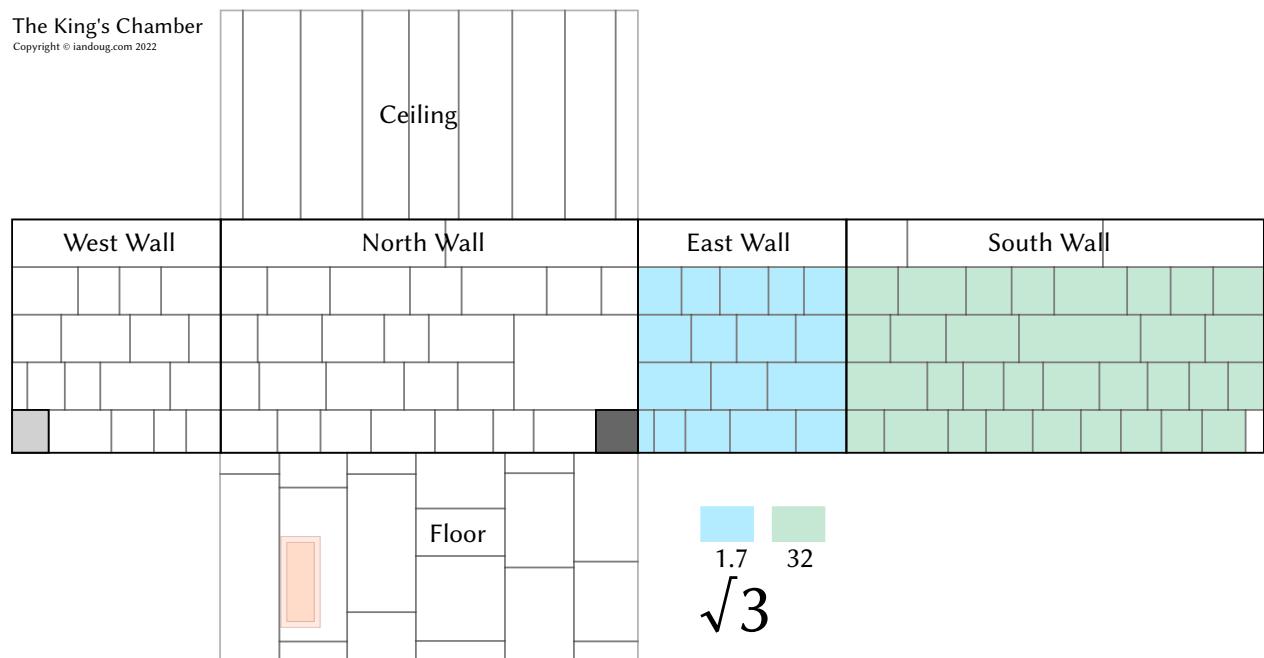
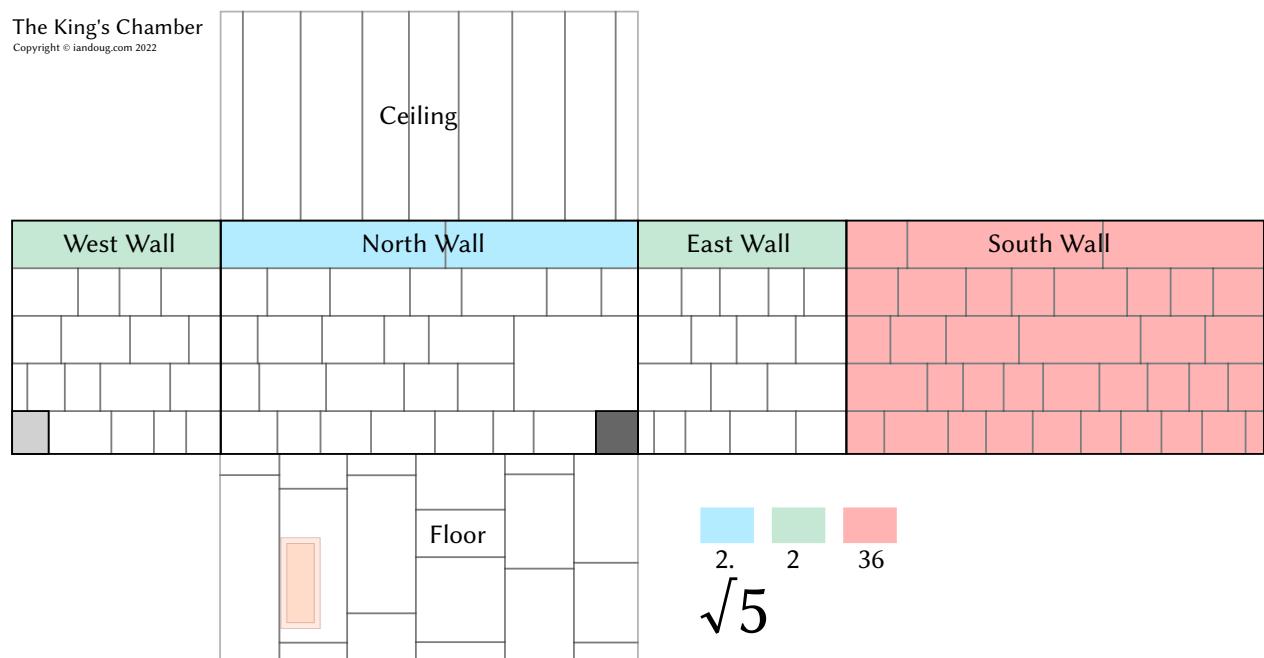
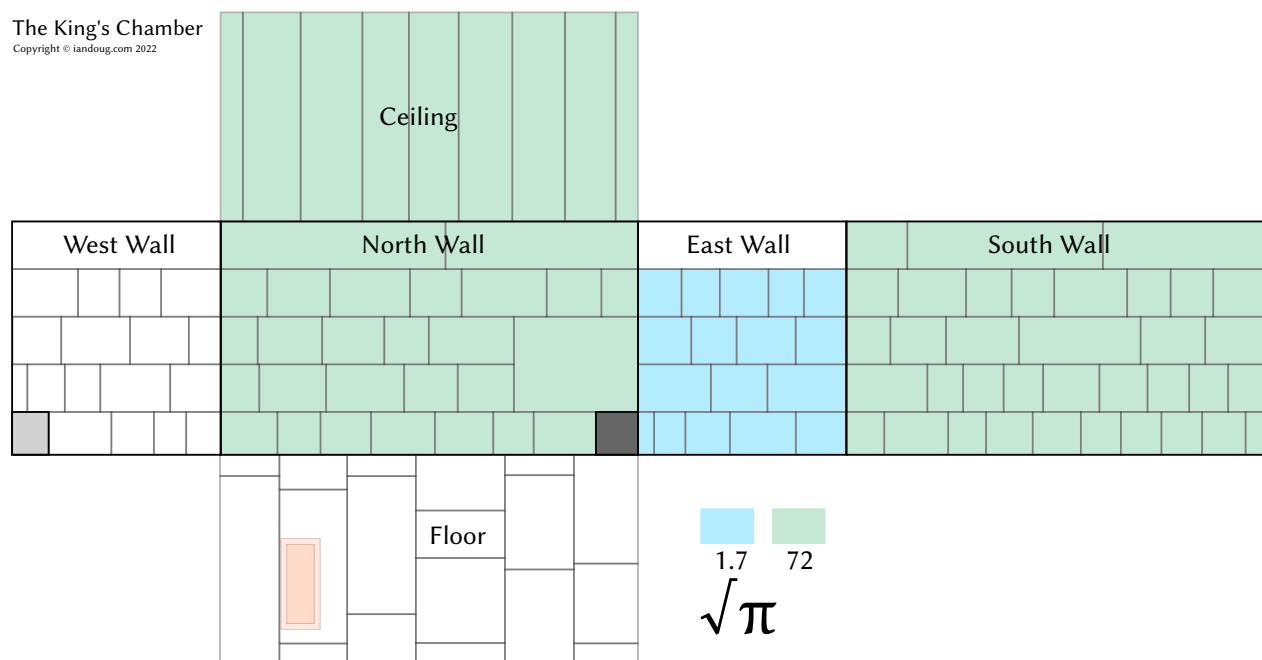
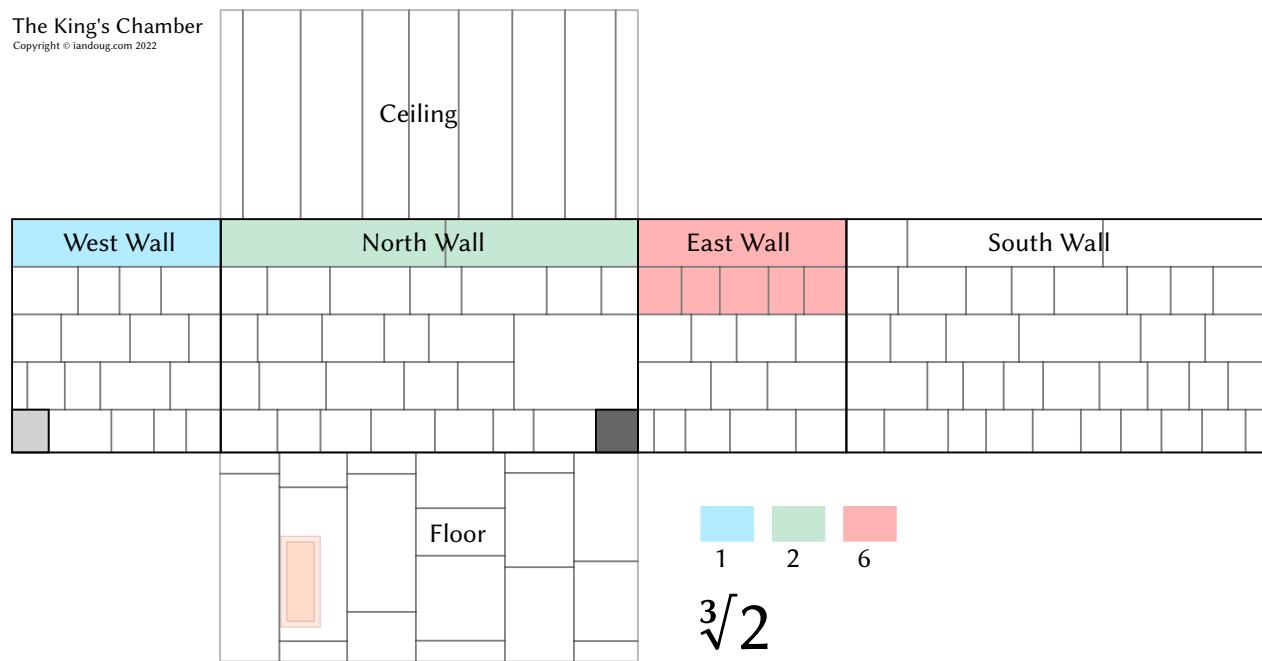


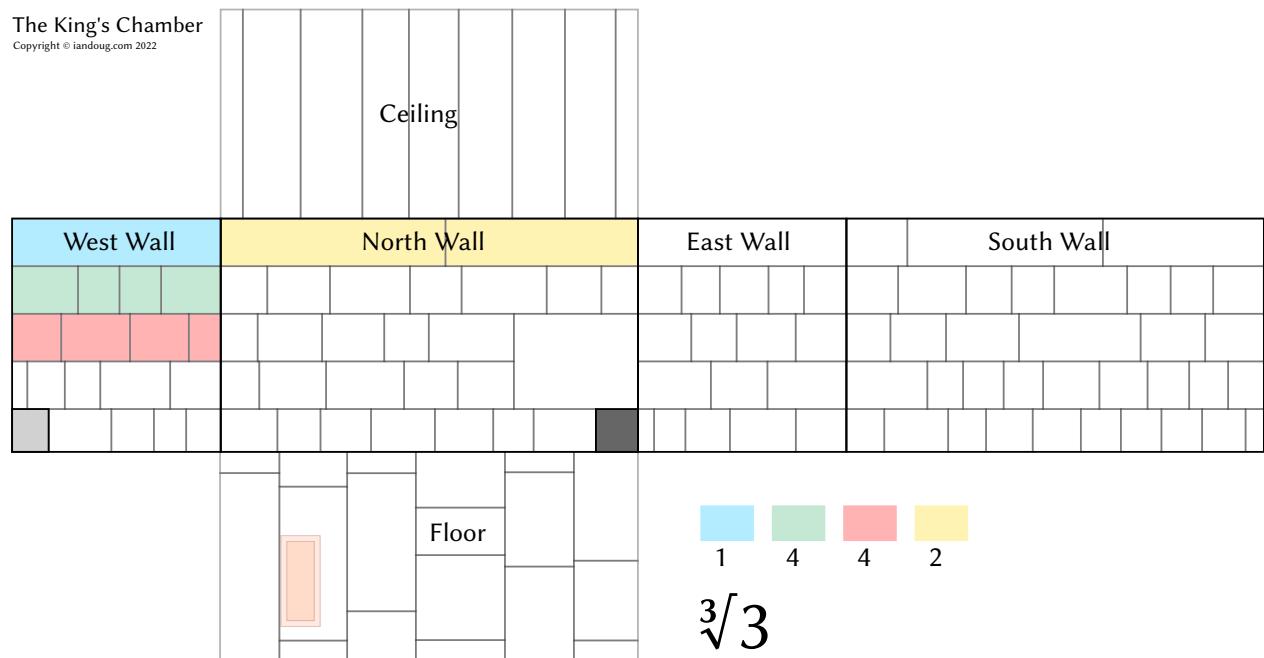
Figure 16: e - 1, the cubit:foot ratio, and more

Figure 17: ρ as a puzzleFigure 18: $\sqrt{2}$

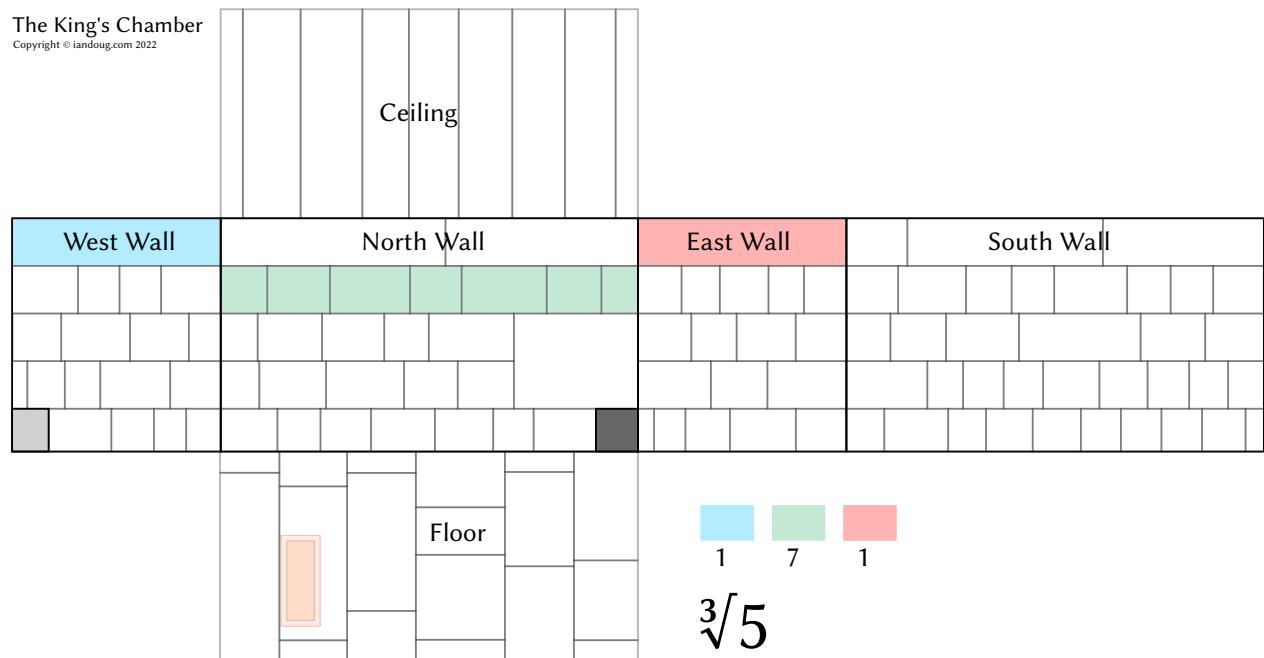
Figure 19: $\sqrt{3}$ Figure 20: $\sqrt{5}$

Figure 21: $\sqrt{\pi}$ Figure 22: $3\sqrt{2}$

The King's Chamber
Copyright © iandoug.com 2022

Figure 23: $\sqrt[3]{3}$

The King's Chamber
Copyright © iandoug.com 2022

Figure 24: $\sqrt[3]{5}$

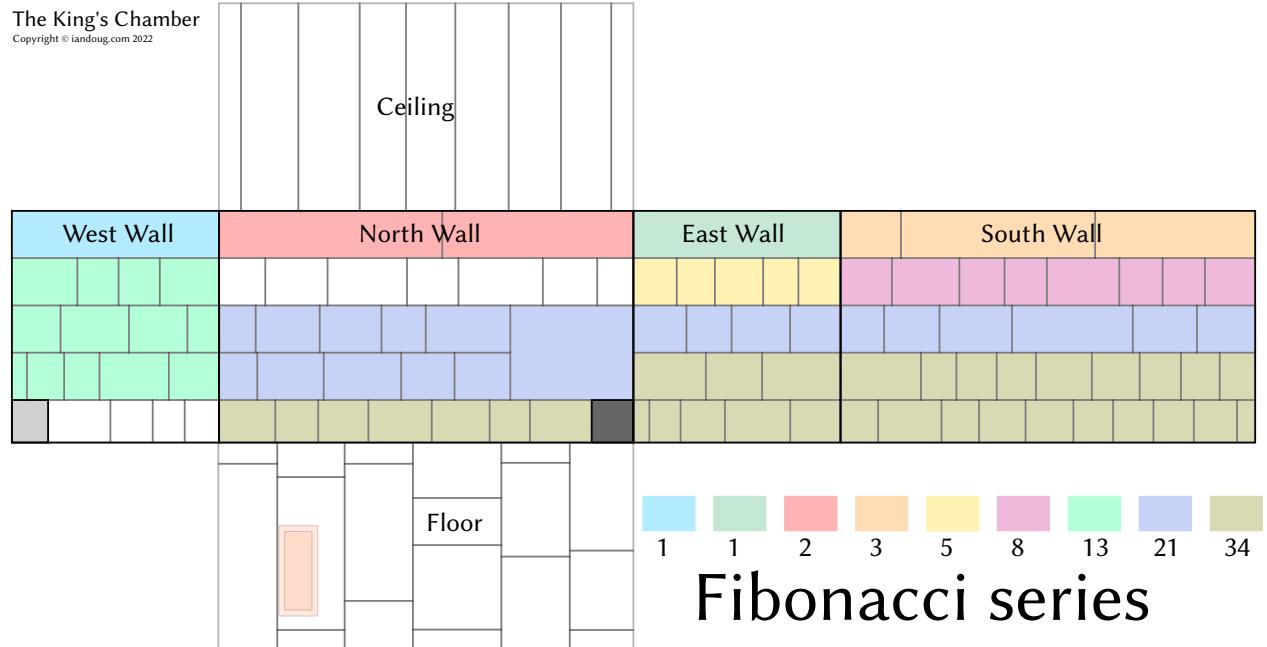
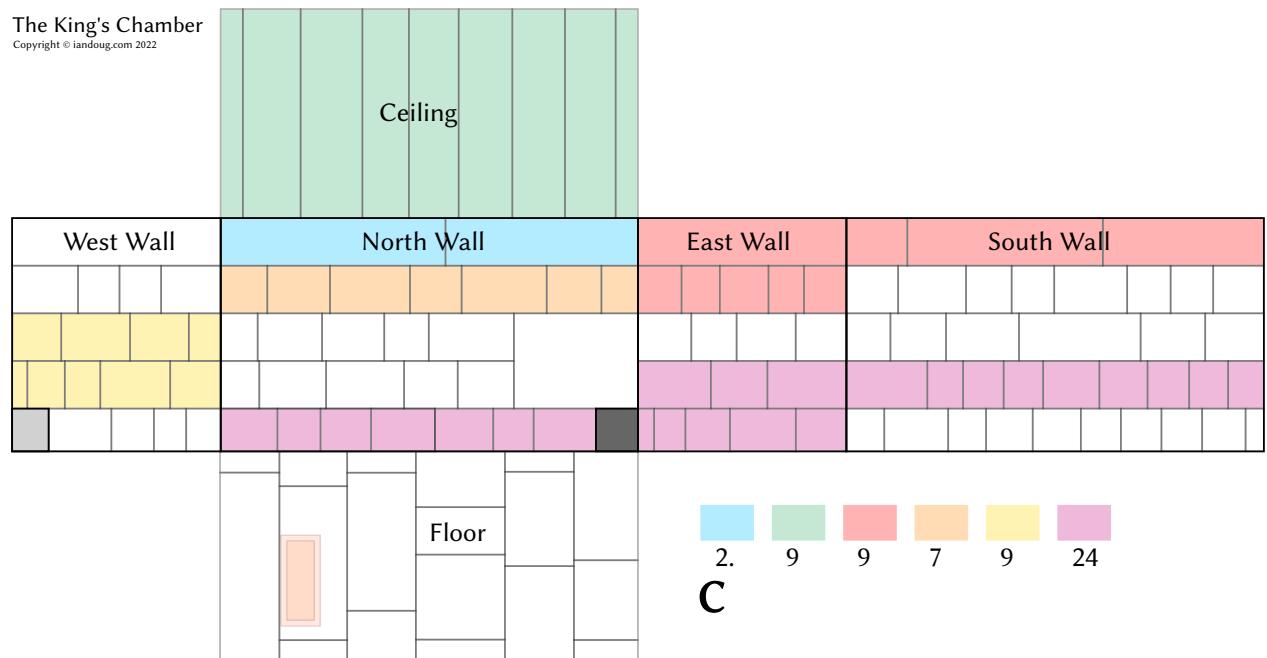
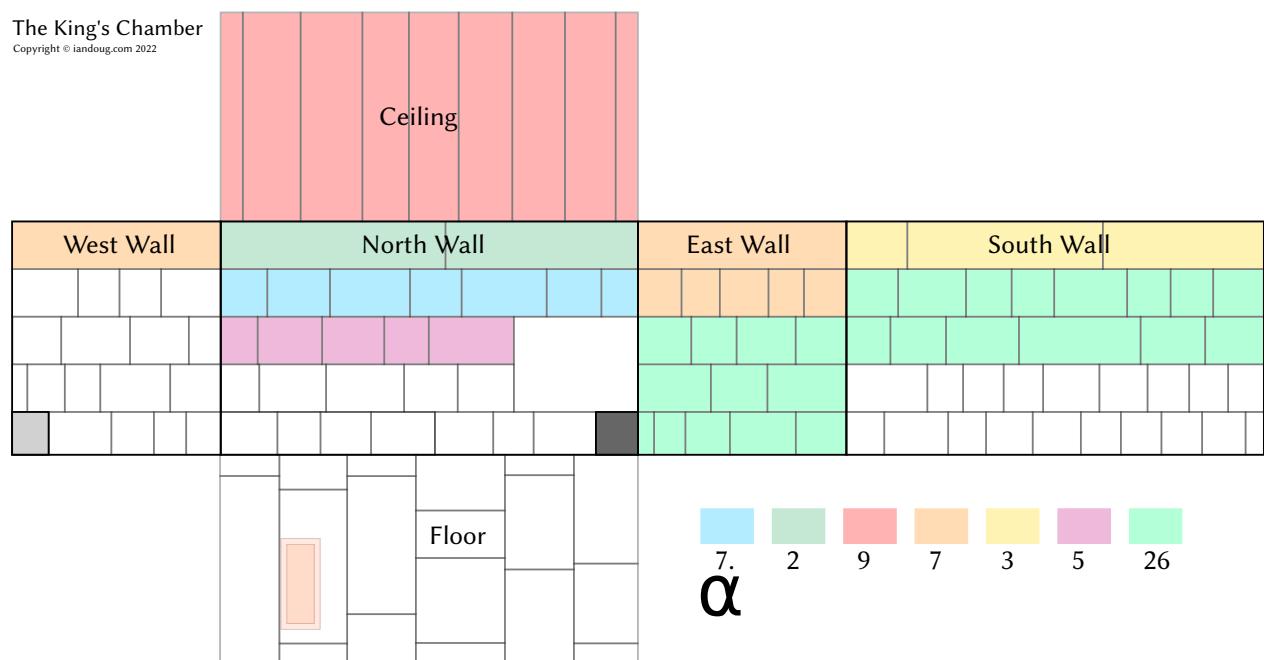
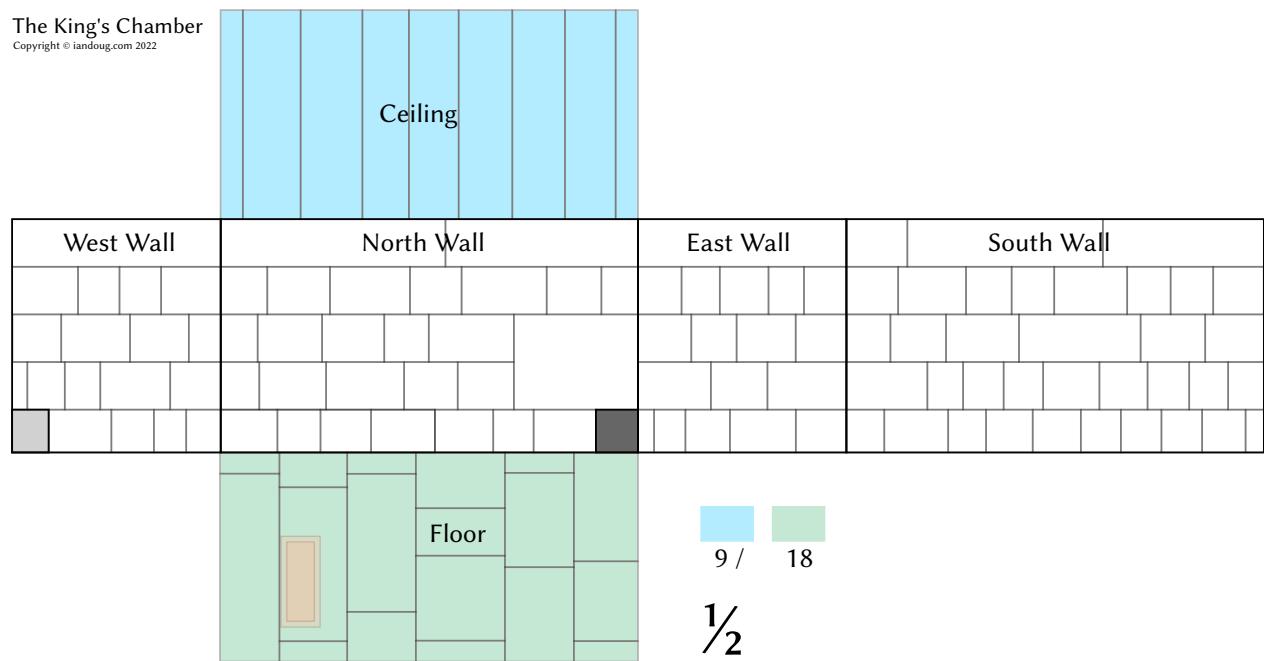
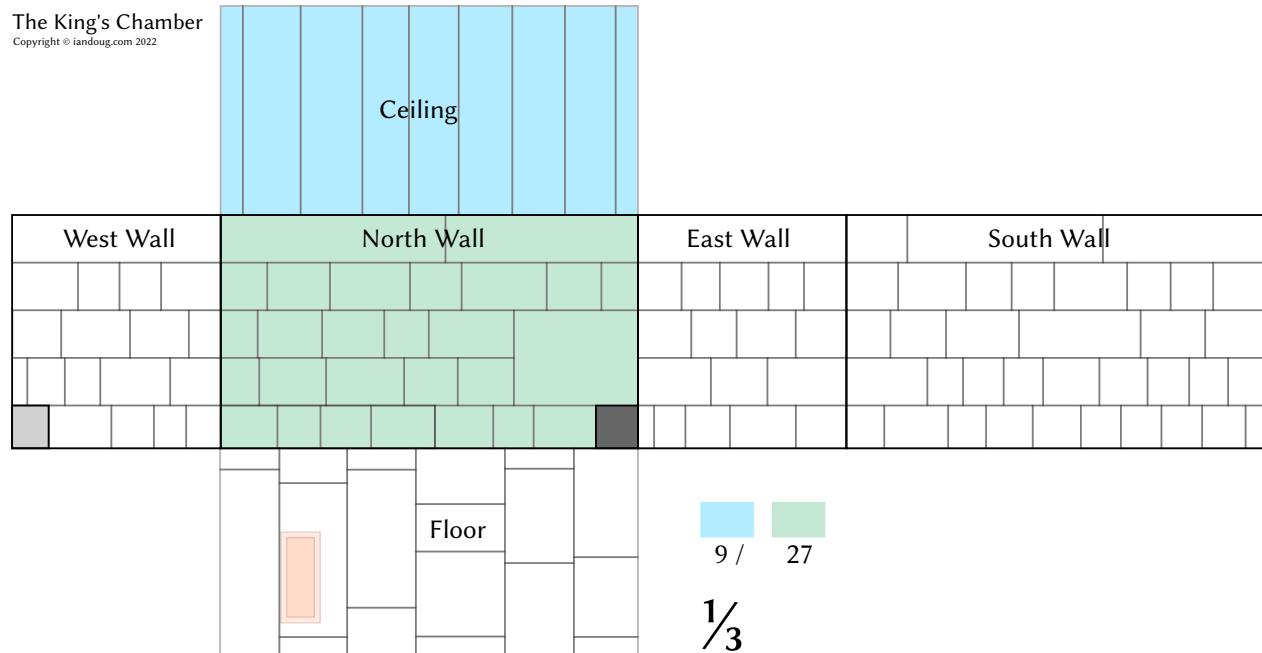
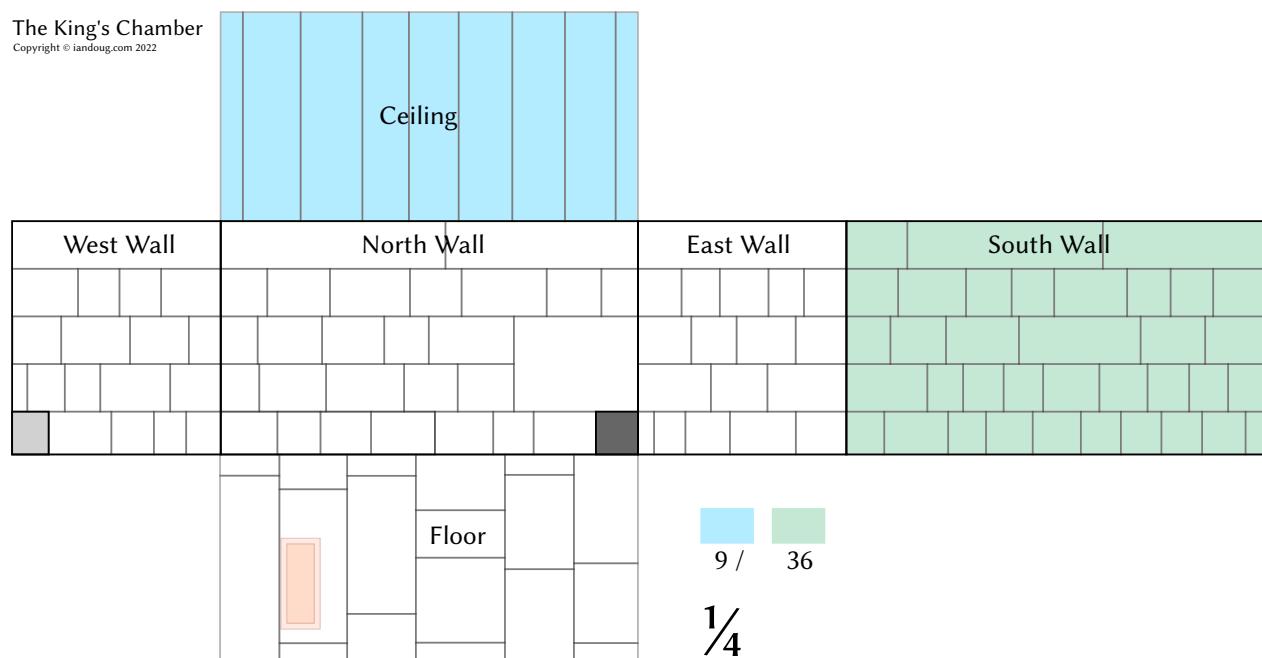
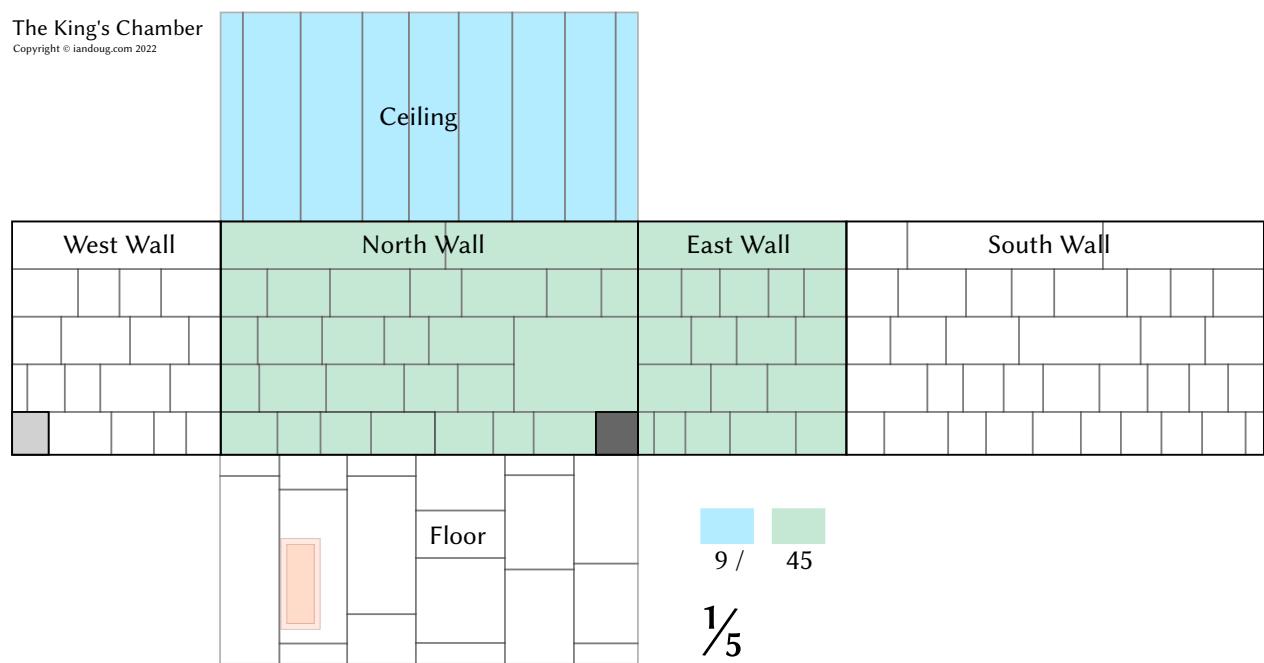
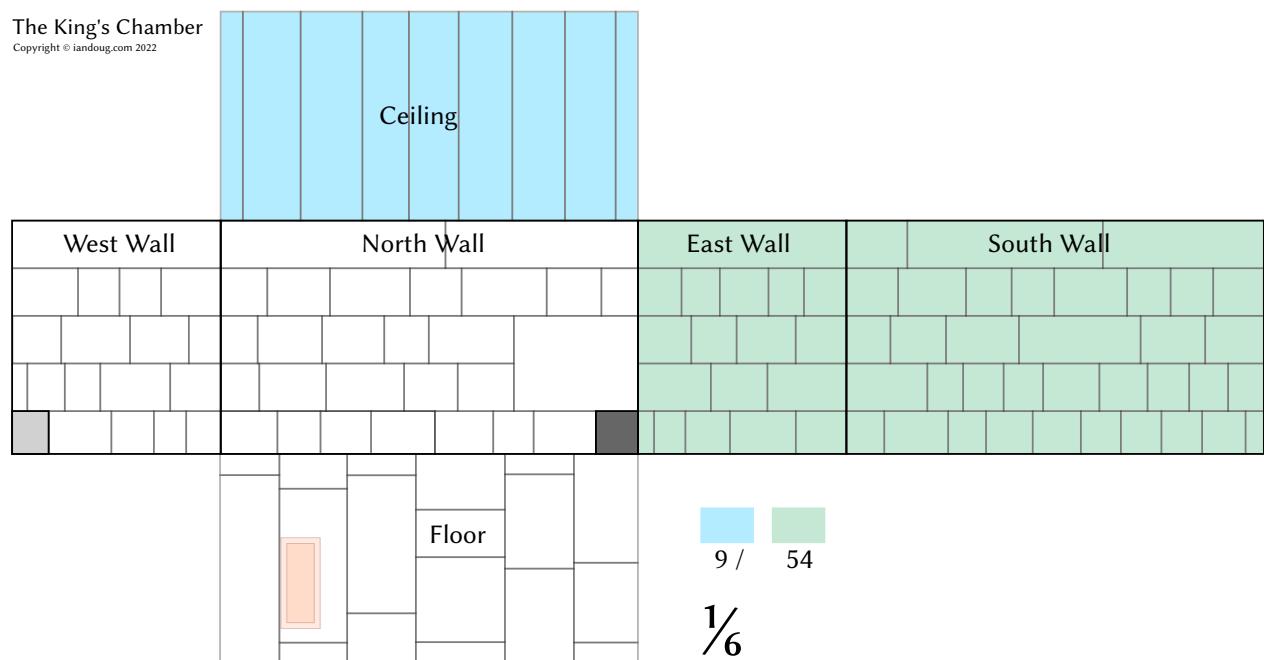


Figure 25: The Fibonacci series

Figure 26: c, The speed of light, $\times 10^8$ m/s

Figure 27: α , the Fine Structure Constant, $\times 10^3$ Figure 28: $\frac{1}{2}$

Figure 29: $\frac{1}{3}$ Figure 30: $\frac{1}{4}$

Figure 31: $\frac{1}{5}$ Figure 32: $\frac{1}{6}$

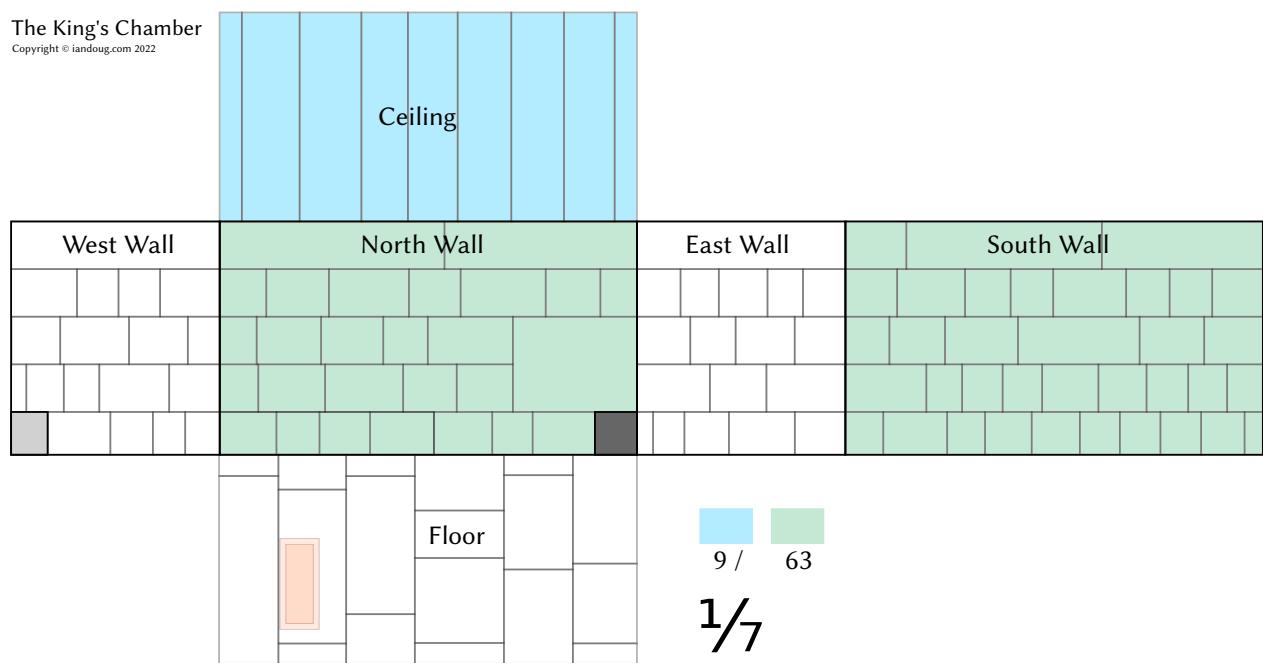


Figure 33: 1/7

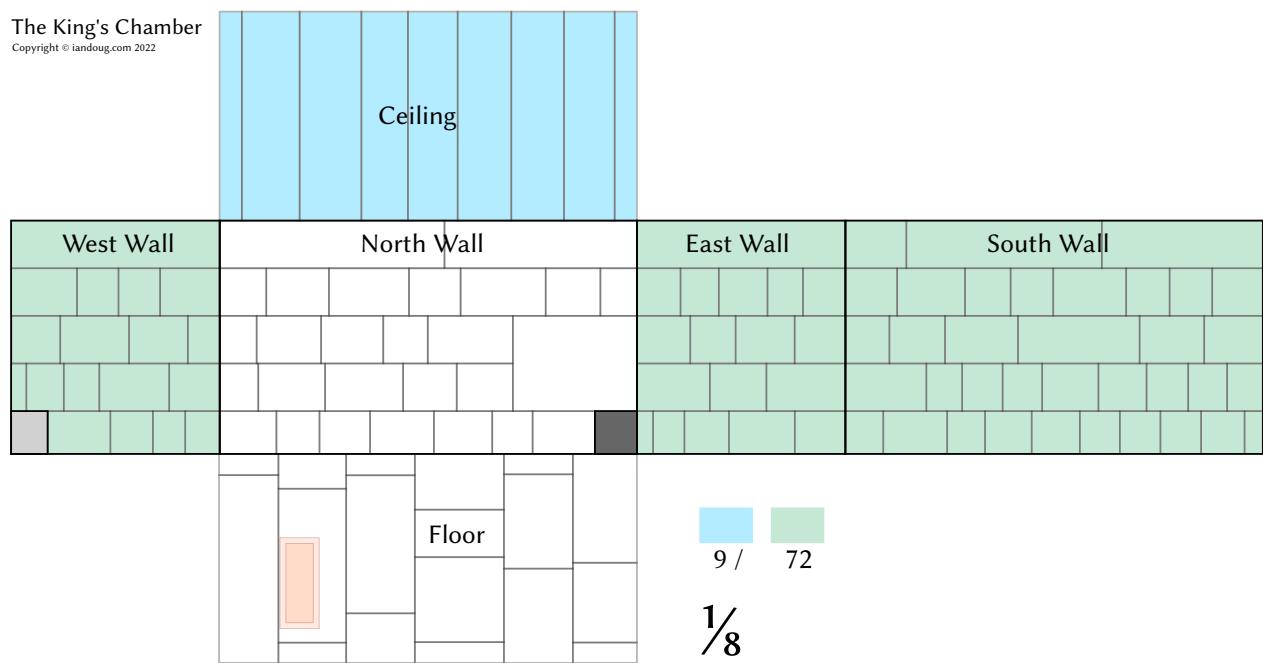
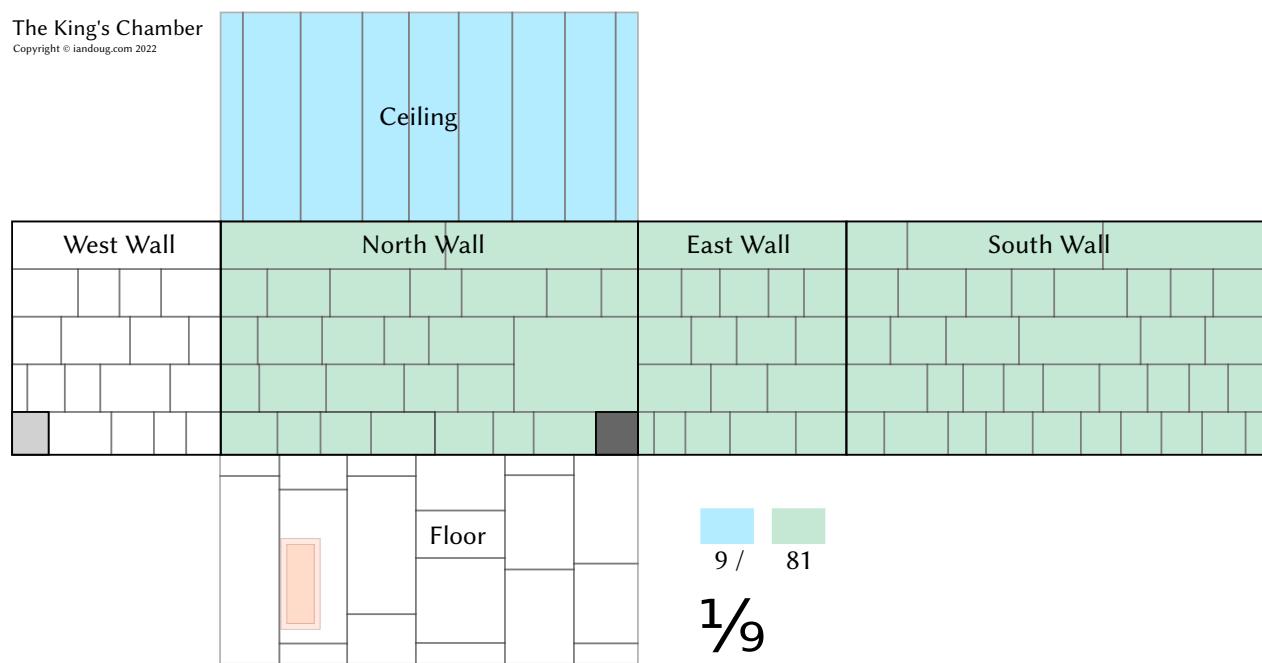
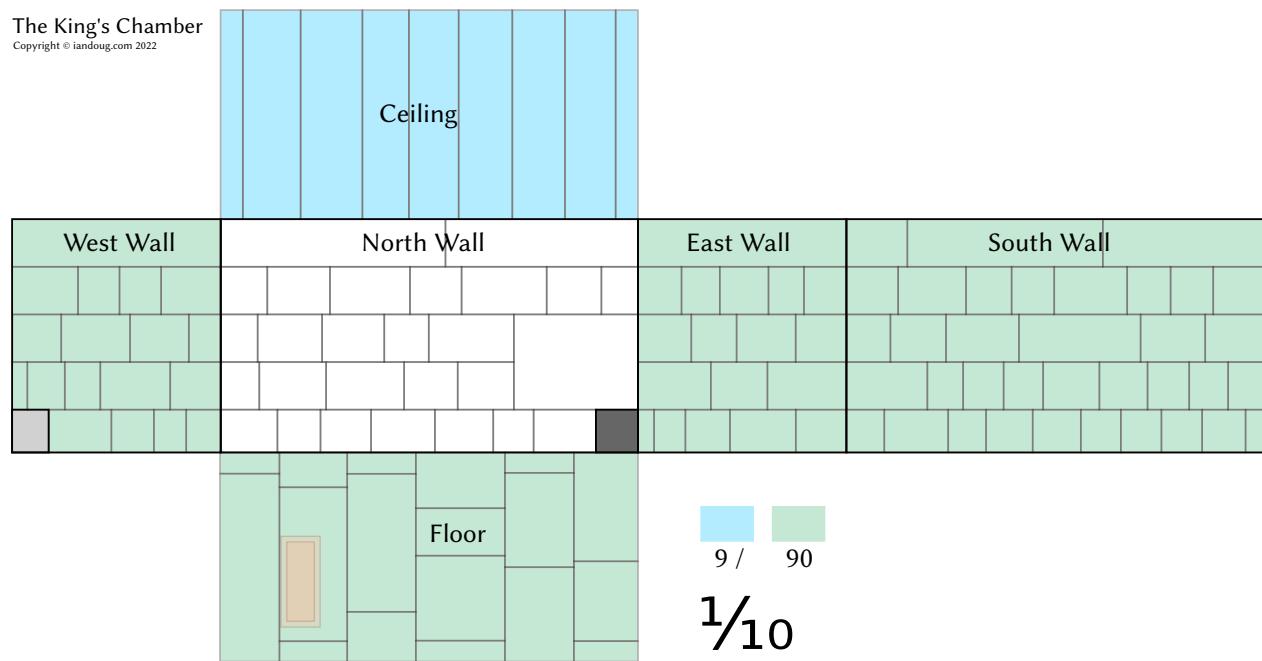
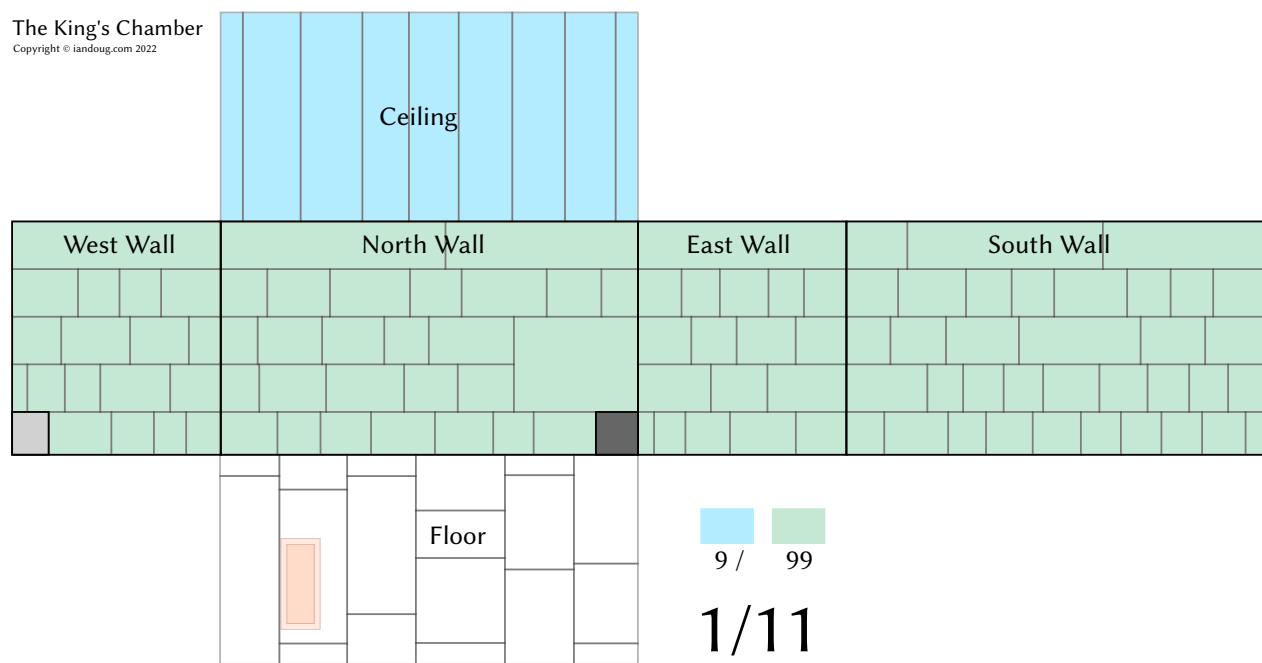
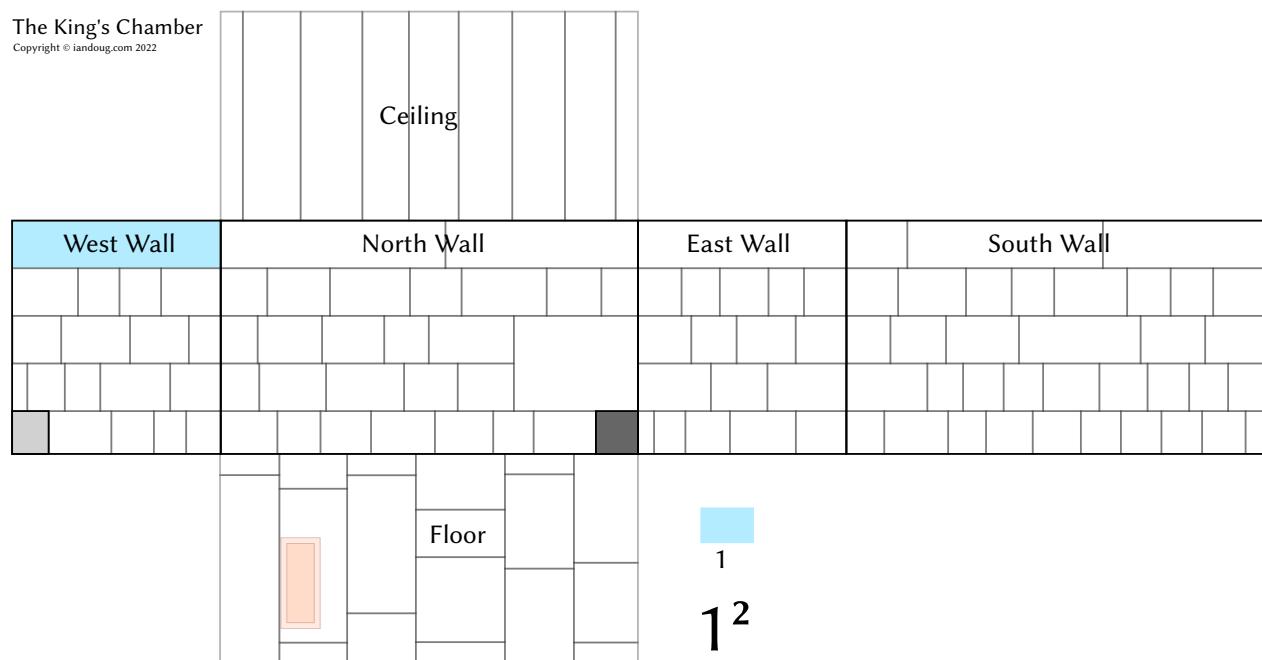
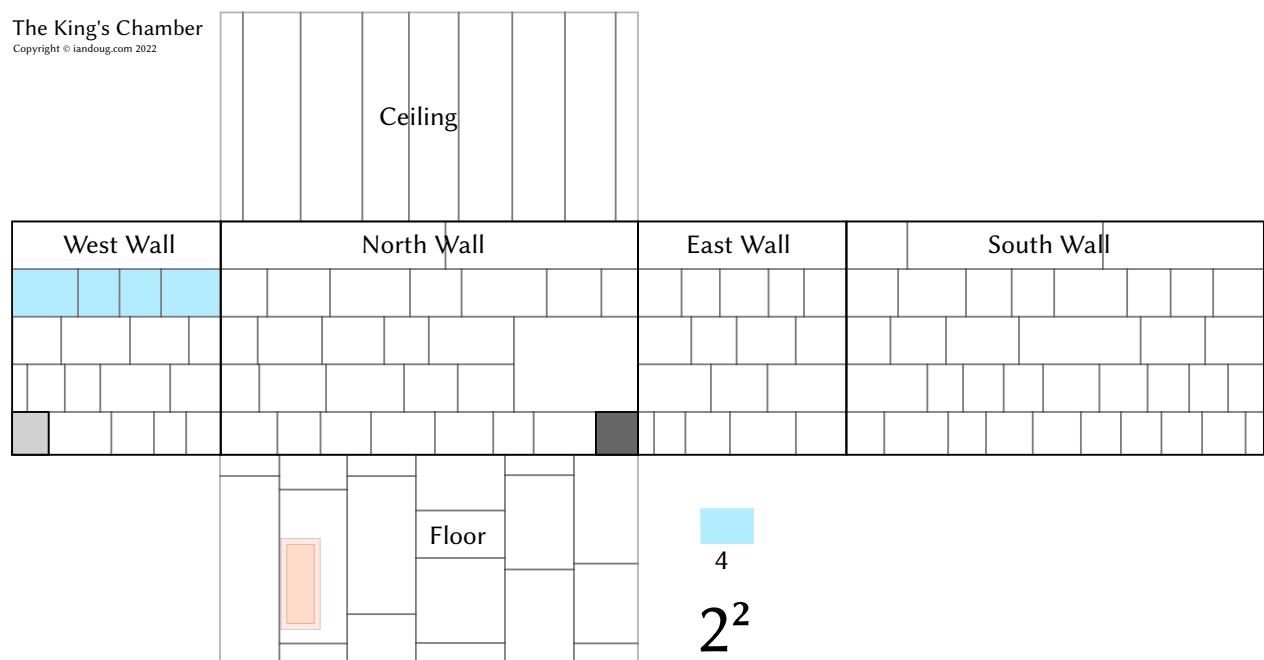


Figure 34: $\frac{1}{8}$

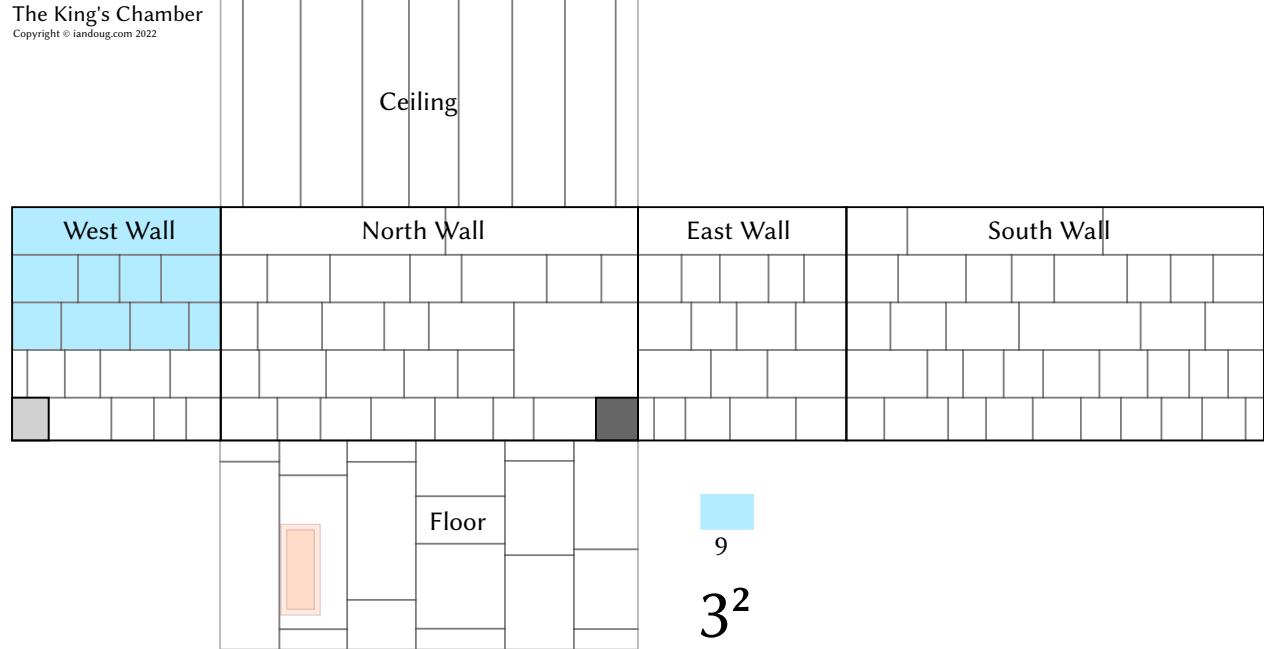
Figure 35: $\frac{1}{9}$ Figure 36: $\frac{1}{10}$

Figure 37: $\frac{1}{11}$ Figure 38: 1²

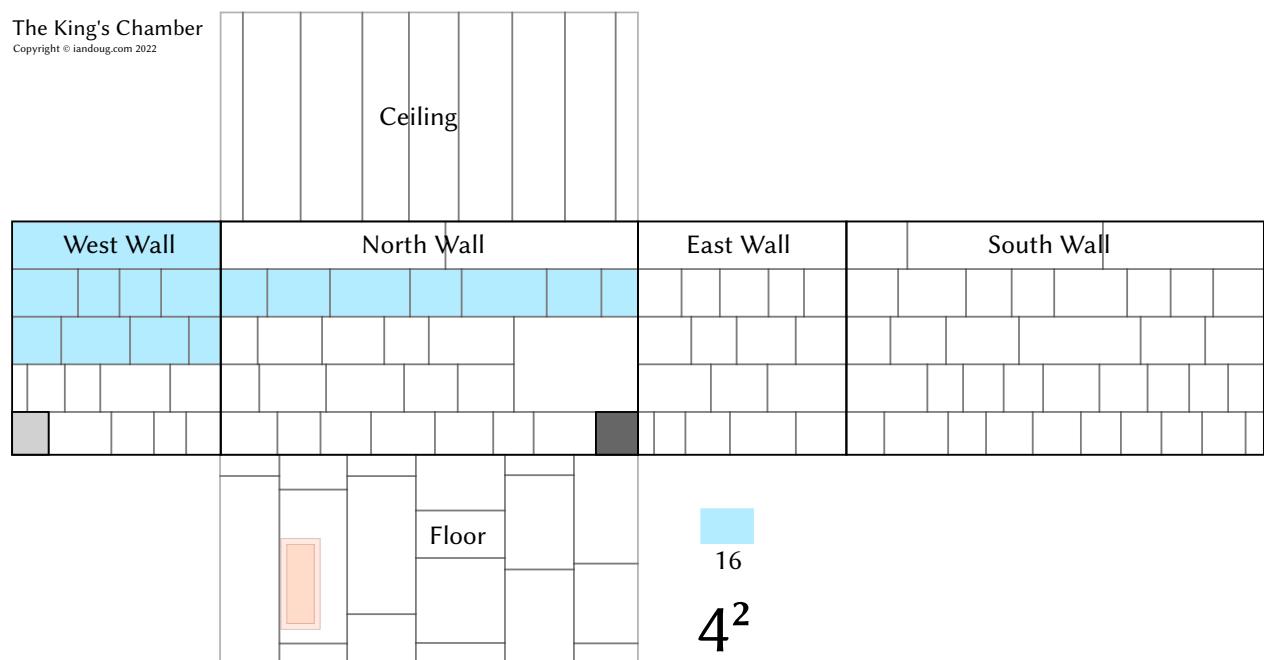
The King's Chamber
Copyright © iandoug.com 2022

Figure 39: 2^2

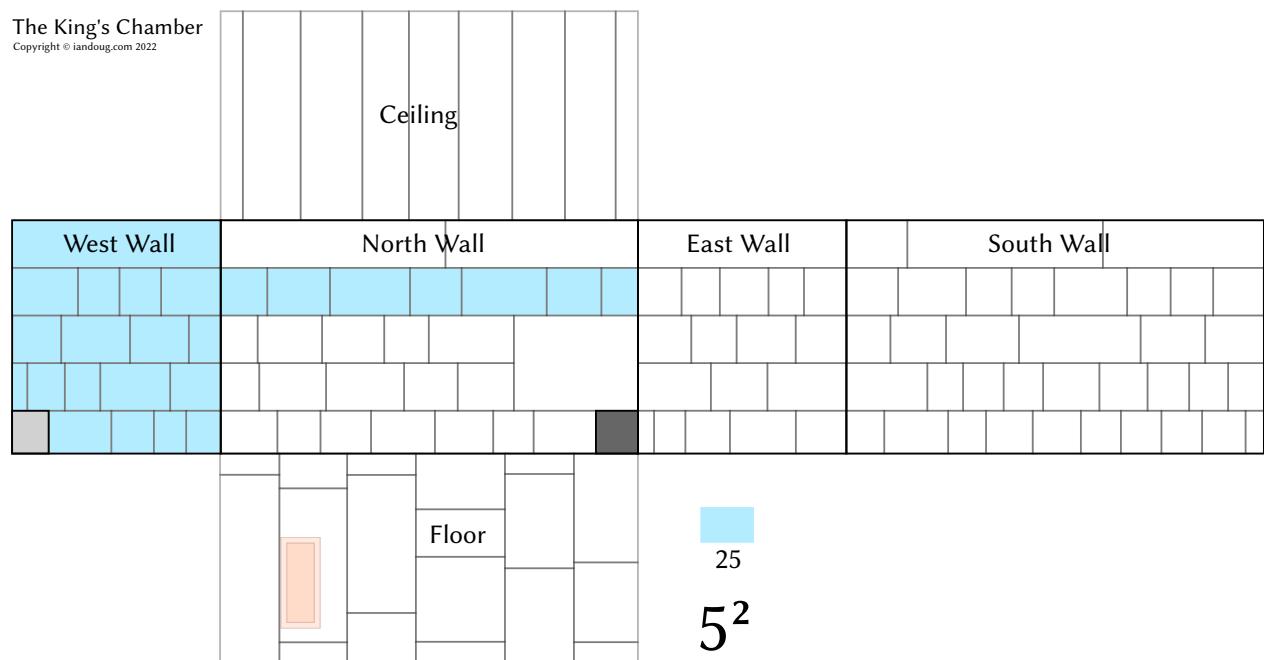
The King's Chamber
Copyright © iandoug.com 2022

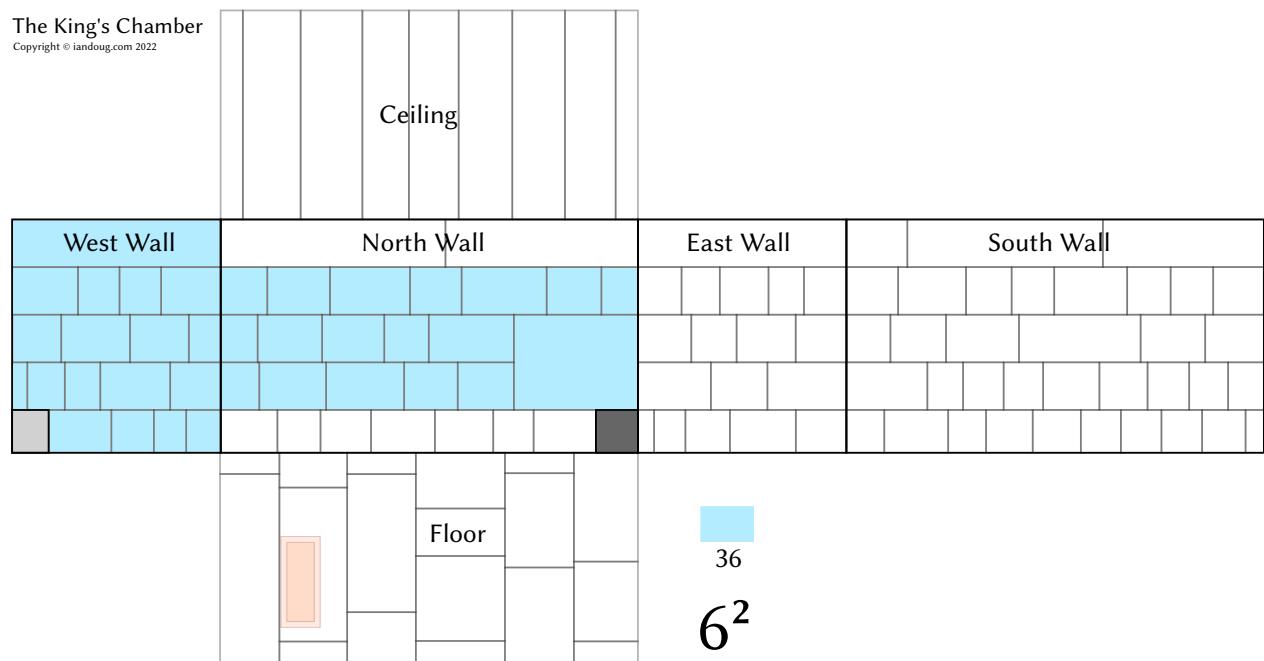
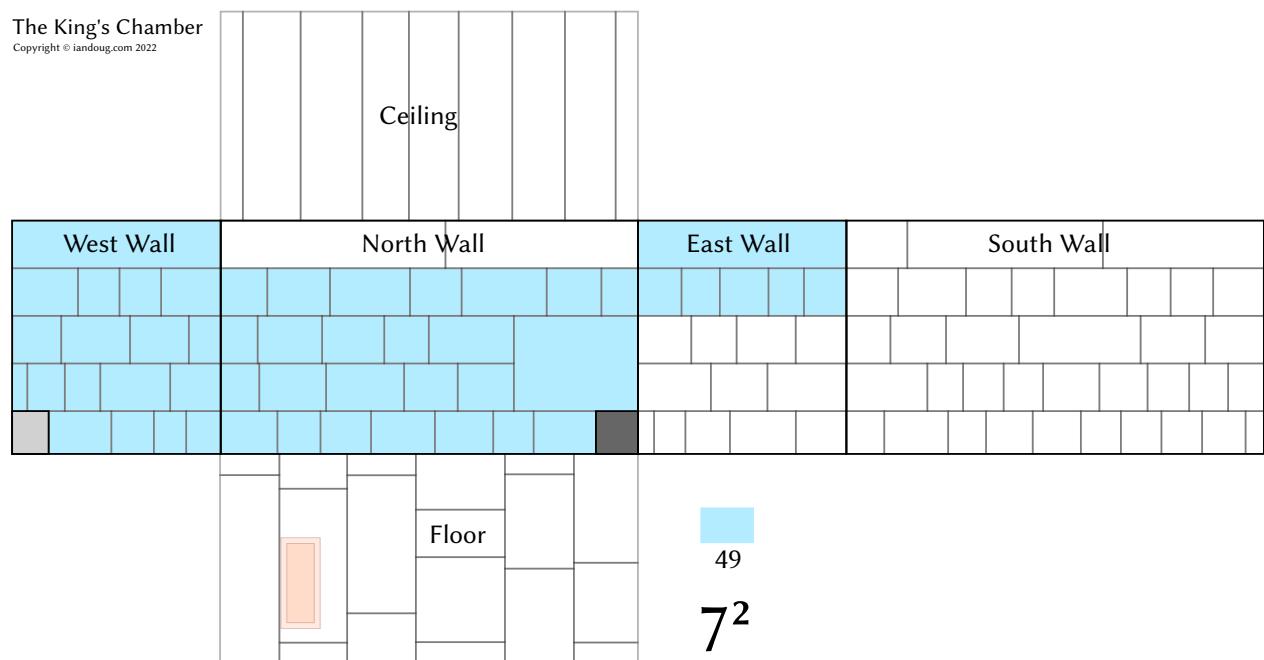
Figure 40: 3^2

The King's Chamber
Copyright © iandoug.com 2022

Figure 41: 4²

The King's Chamber
Copyright © iandoug.com 2022

Figure 42: 5²

Figure 43: 6^2 Figure 44: 7^2

The King's Chamber
Copyright © iandoug.com 2022

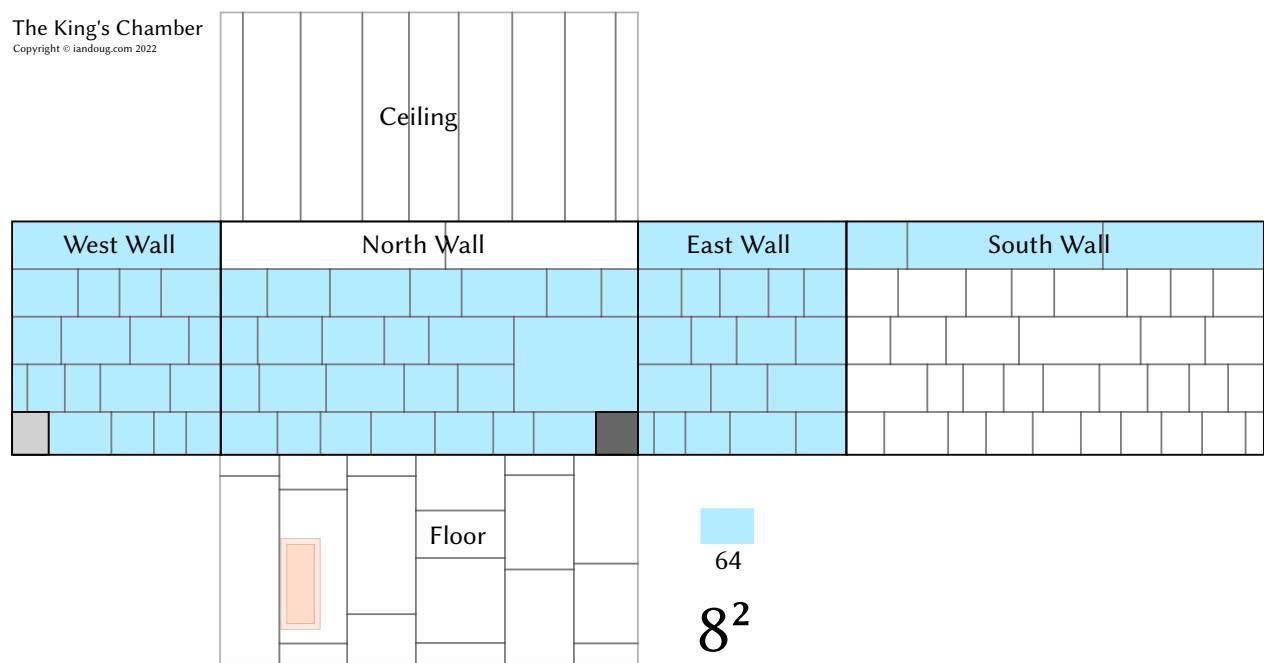


Figure 45: 8^2

The King's Chamber
Copyright © iandoug.com 2022

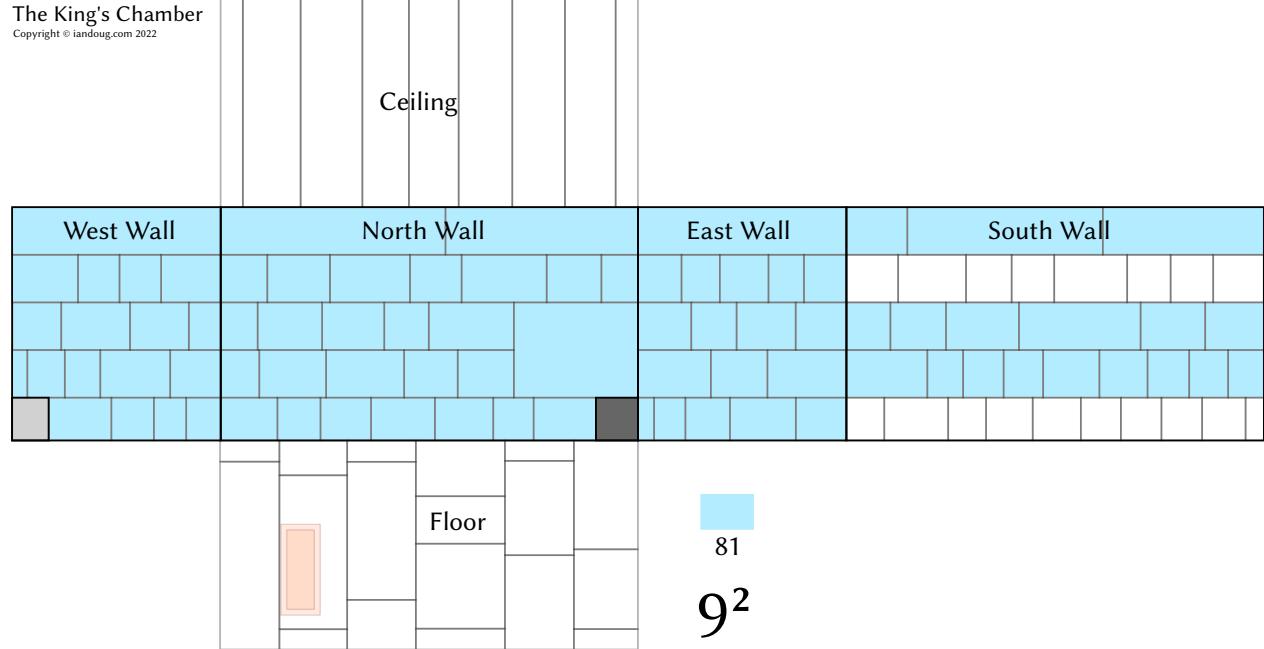


Figure 46: 9^2

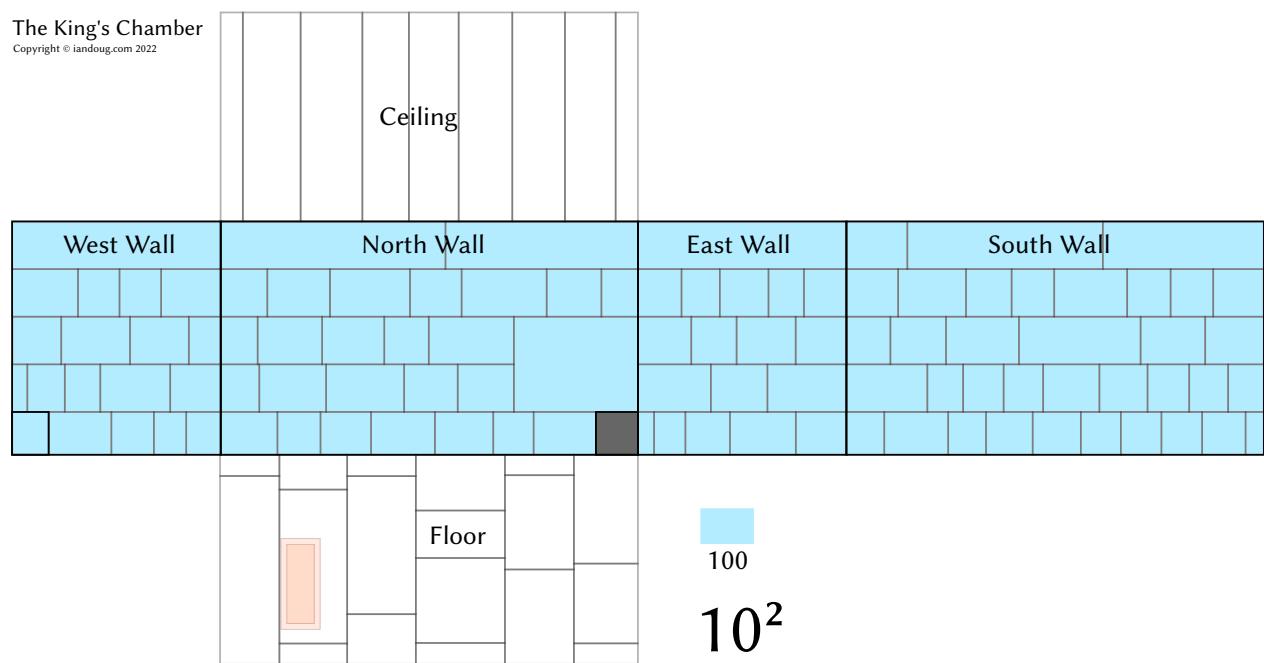
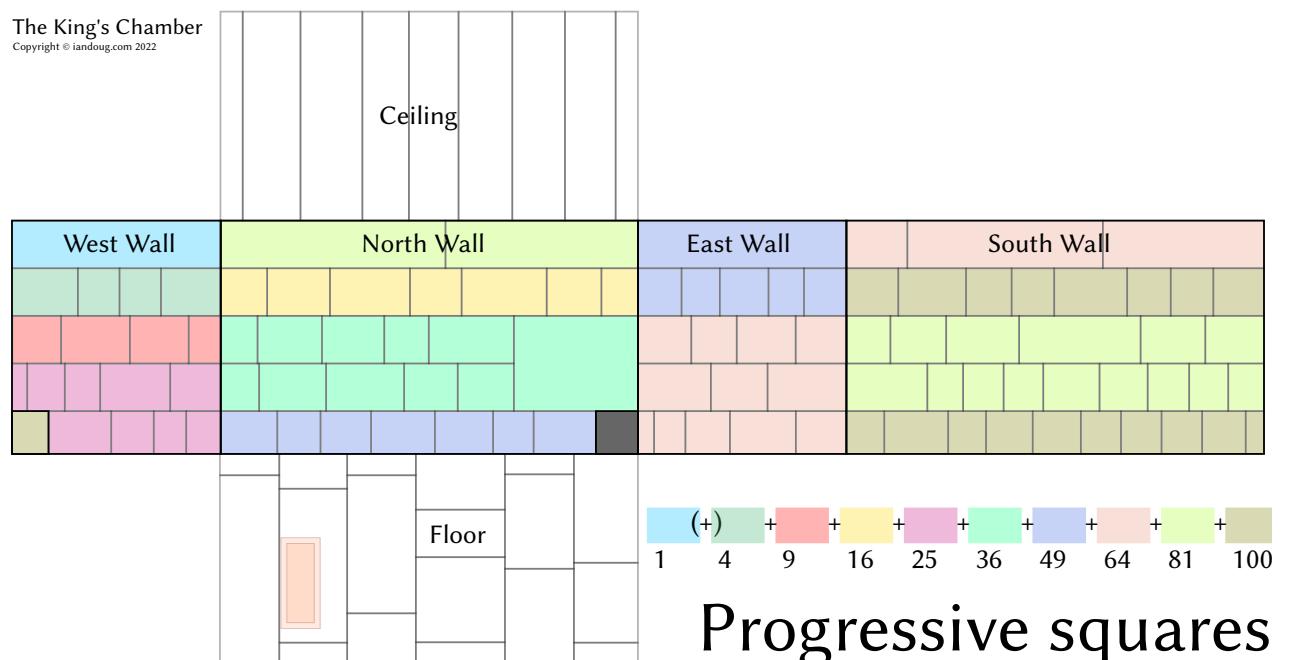
Figure 47: 10^2 

Figure 48: Progressive squares

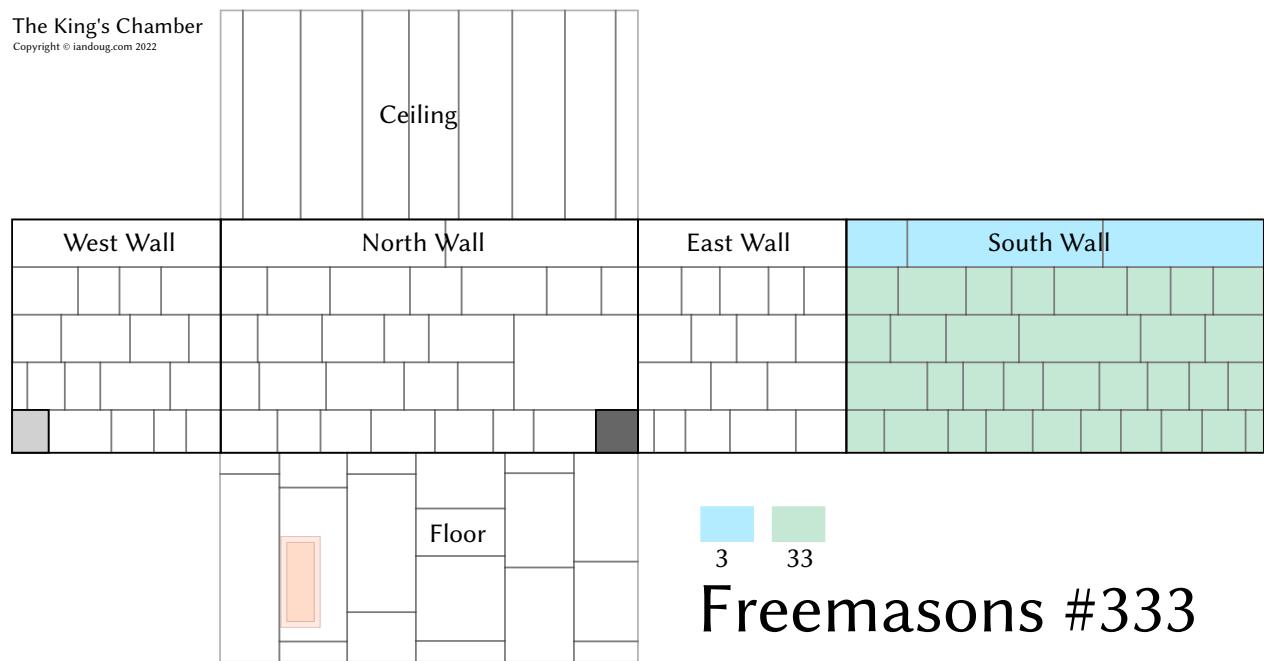


Figure 49: Freemasons #333