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\documentclass[9pt]{amsart}
\usepackage[margin=0.5in]{geometry}
\usepackage[backend=biber, style=alphabetic]{bibtex}
\usepackage{mymacros, pgf}
\usepackage{lipsum}
\usepackage{multicol}
\usepackage{wrapfig}
%\bibliography{clanbib} % or
% \addbibresource{<database>.<extension>}
%\renewcommand{\familydefault}{\sfdefault}

\begin{document}
\pagenumbering{gobble}
\begin{minipage}[t]{0.75\textwidth}
%\begin{minipage}[t][11cm][b]{\textwidth}
\centering
\textbf{Building Blocks}\hspace{3.15cm} \textsc{Nov. 2019}\hspace{3.75cm} \textsc{A. Bingham} \par
\vspace{5pt}

\begin{tikzpicture}[scale=0.9, every node/.style={scale=0.6}]
\draw (0,0) grid (15, 15);
%\filldraw (5,0) rectangle (7, 3)
% (10,0) rectangle (11,2)
% (0,3) rectangle (1,7)
% (0,3) rectangle (4,4)
% (14,3) rectangle (15,4);
\foreach \y in {3,4,5,6,10,11}
\filldraw (0,\y) rectangle (1,\y+1)
(15,15-\y) rectangle (14, 14-\y);
\foreach \y in {3,10}
\filldraw (1,\y) rectangle (2,\y+1)
(14,15-\y) rectangle (13, 14-\y);
\foreach \y in {3,10}
\filldraw (2,\y) rectangle (3,\y+1)
(13,15-\y) rectangle (12, 14-\y);
\foreach \y in {3,7}
\filldraw (3,\y) rectangle (4,\y+1)
(12,15-\y) rectangle (11, 14-\y);
\foreach \y in {5,6,7,13,14}
\filldraw (4,\y) rectangle (5,\y+1)
(11,15-\y) rectangle (10, 14-\y);
\foreach \y in {0,1,2,8}
\filldraw (5,\y) rectangle (6,\y+1)
(10,15-\y) rectangle (9, 14-\y);
\foreach \y in {0,1,2,9}
\filldraw (6,\y) rectangle (7,\y+1)
(9,15-\y) rectangle (8, 14-\y);
\foreach \y in {4,10}
\filldraw (7,\y) rectangle (8,\y+1);
\newcounter{clue} \addtocounter{clue}{1}
\foreach \x in {1,2,3,4,6,7,8,11,12,13,14,15}
\node at (\x-1, 15) [below right] {\$ \arabic{clue}$ \stepcounter{clue}};
\foreach \x in {1,6,11}
\node at (\x-1, 14) [below right] {\$ \arabic{clue}$ \stepcounter{clue}};
\foreach \x in {1,5,11}
\node at (\x-1, 13) [below right] {\$ \arabic{clue}$ \stepcounter{clue}};
\foreach \x in {2,9,10}

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\foreach \x in {4,9,12,13,14}
  \node at (\x-1,12) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {1,2,3,8,12}
  \node at (\x-1,11) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {1,6,13,15}
  \node at (\x-1,10) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {2,4,6,11,12}
  \node at (\x-1,9) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {2,6,10}
  \node at (\x-1,8) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {2,5,9}
  \node at (\x-1,7) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {5,8,13,14}
  \node at (\x-1,6) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {1,2,3,4,8,15}
  \node at (\x-1,5) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {1,8,12}
  \node at (\x-1,4) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {1,8,12}
  \node at (\x-1,3) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {1,8,12}
  \node at (\x-1,2) [below right] {\arabic{clue}$ \stepcounter{clue}};
\foreach \x in {1,8,12}
  \node at (\x-1,1) [below right] {\arabic{clue}$ \stepcounter{clue}};

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\foreach \x in {1,7,12}
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\end{tikzpicture}
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\vspace{-7pt}
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\flushleft
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\begin{multicols}{3}
```

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\noindent \textbf{Across} \\
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1 Potential good reduction?\\
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5 PC disk upgrade option\\
```

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8 Contribute\\
```

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13 Uncertainty: Latin\\
```

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14 Size of the smallest field\\
```

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15 Special kind of symmetric polynomial\\
```

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16 Mantra for a grad student going into quals, maybe\\
```

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18 The noblest digit, according to the Pythagoreans\\
```

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19 Oxford, as regarded from Cambridge (and vice versa)\\
```

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22 Count of Platonic solids\\
```

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23 All this effort, just so someone will call you...\\
```

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27 \underline{\hspace{1cm}} sort: notably slow algorithm named for a trio\\
```

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30 Second word of "Alice in Wonderland"\\
```

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31 Algebraist  $\{O\}$ stein\\
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32 Smallest known exotic sphere dimension\\
```

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33 Larry who never finished his dissertation on understanding the internet as a graph \\
```

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34 "Notorious" justice\\
```

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35 As a talk with like 70 slides\\
```

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36 Hyperbola, parabola, or ellipse\\
```

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37 Intl. supermarket chain\\
```

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39 Research area for S. Kovalevskaya\\
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41 Sonny Rollins tune\\
```

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42 Adjoint exterior differential\\
```

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44 Strong \underline{\hspace{1cm}} of small numbers: "There aren't enough small numbers to meet the many demands made of them."\\
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45  $x=2$  and  $x=-2$  for  $f(x)=\frac{1}{x^2-4}$ , e. g.\\
```

```
46 Slain rapper Hussle\\
```

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47 Its  $n$ th power gives the  $n$ th row of Pascal's Triangle\\
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49 The affine line, in algebraic geometry\\
```

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50 Number which is 6 for Carl Sagan and Danica McKellar\\
```

54 Listing in a conf. proc.\\
 58 Count of Archimedean solids\\
 60 Like many assumptions\\
 61 Substance less known for turning into theorems\\
 62 over run\\
 63 Like several answers in this puzzle\\
 64 CIA predecessor\\
 65 Regarding\\
 \vspace{3pt}
 \textbf{Down} \\
 1 I know...\\
 2 Potato: Hindi\\
 3 Musical which made the number 525,600 famous\\
 4 Rival in research?\\
 5 Go hungry\\
 \end{multicols}
 \end{minipage}
 \hspace{2pt}
 \begin{minipage}[t]{0.24\textwidth}
 6 Snatch\\
 7 Plaything\\
 8 Off-tiled kind of diamond\\
 9 Homer's response to "That's a **right** triangle, ya idiot!" \\
 10 Order against CPR\\
 11 Kwon Do\\
 12 When repeated, a popular soccer chant\\
 17 Simulate\\
 20 Barber's for Strings\\
 21 Reciprocal of \sin \\
 24 Derived functor of tensor product\\
 25 Pieces of the action?\\
 26 Genre for the Wailers\\
 27 $\sum_{i=1}^n (y_i - \bar{y})^2$ in stats: Abbr.\\
 28 University where Emil Grosswald taught in the 1970s\\
 29 "Metamorphoses" adjectival, maybe\\
 30 Doesn't wax\\
 33 Home for Zofia Szmjdyt and Stefan Banach\\
 36 Collection whose union is the whole thing\\
 38 Suffix indicating rank\\
 40 What Dolly was (1996-2003)\\
 42 Official currency of Serbia \\
 43 Association for LGBTQ+ mathematicians and allies\\
 46 Desirable property of an estimator\\
 48 Ligne (part of the m\etro de Montr\eval)\\
 49 Subjects of the sports documentary "Arthur and Johnnie"\\
 51 First name of Hesse, H\older and Toeplitz\\
 52 Combinatorialists' favorite website: Abbr.\\
 53 Bird abode\\
 54 Cell fuel: Abbr.\\
 55 One way to denote closure\\
 56 Part of STEM: Abbr. \\
 57 bits (Canadian doughnut holes)\\
 59 Matrix character?

\end{minipage}

\end{document}