BRICKGUN

LEGO® Dimension Guides

v1.0

In our studio, the BrickGun designers find it helpful to have a work surface that is covered with accurate, life-sized (1:1 scale) grids depicting the dimensions of LEGO® bricks and plates from both top (Plan, "Stud") and side (Elevation, "Brick/Plate") views.

Printed sheets are covered with laminate to create a workspace where the dimensions of any model in progress can be immediately measured in both Studs and Brick/Plates. This allows our designers to quickly gauge the size of their creations, as well as efficiently measure any pieces that are being used in the build. We find it particularly helpful for Technic® Beams, Axles and long Bricks/Plates.

Multiple pages can be printed and trimmed along two edges, then taped together to create expanded grid surfaces for larger projects. Pages are included with increased Stud and Brick/Plate counts to accommodate areas covering up to 6 pages (3 wide by 2 high). This provides a surface for models up to 44x96 Studs in width/length and 36 Bricks (108 Plates) in height.

Also included are “Single Strip” sheets which are meant to be cut and joined into a long, single strip of Bricks/Studs and Plates, similar to a ruler or measuring tape. We affixed these to the edge of our build space to provide a quick reference to check the sizes of parts.

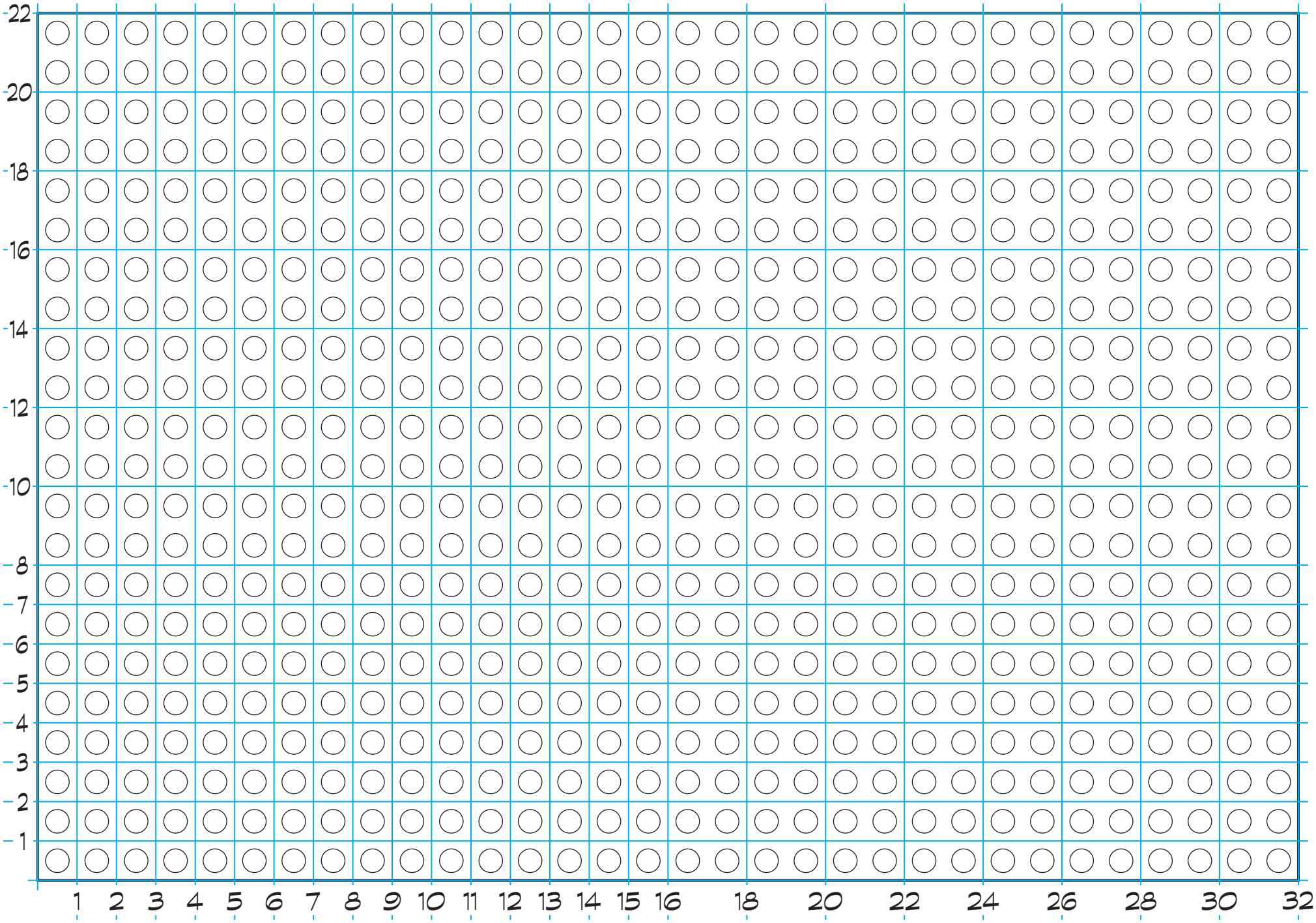
Reference sheets have been created which show the dimensions of basic LEGO® bricks. These have been laid out using LDraw dimensions rather than real-world sizes as that is a simpler system for determining the relative size of parts and how to align them once you abandon "studs on top" design and start to have Bricks/Plates oriented in various directions. They are invaluable in determining what is necessary to line up and connect pieces properly and accurately when models are built in this manner.

LEGO® Technic® element connection points are also covered. Basic 90° connections showing how many Bricks/Plates separate Technic® pin hole alignments, even for opposed Bricks as well as alignments of various beam rotations against a Brick grid. All of this information is invaluable when working with complicated structures that require strength via Technic® reinforcement.

LEGO® Dimension Guides

Stud View

dimensions.brickgun.com



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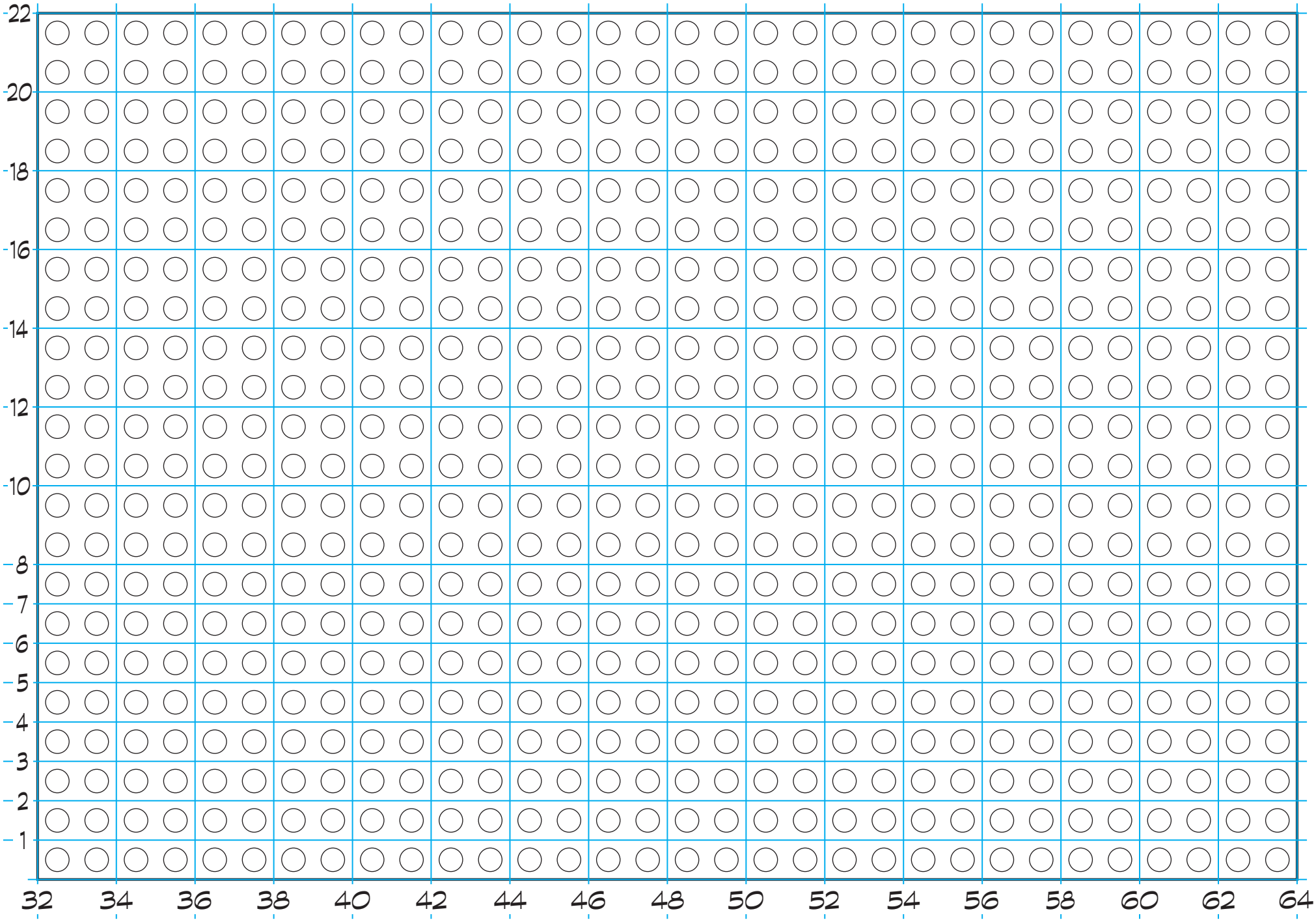
Stud View

dimensions.brickgun.com



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Stud View

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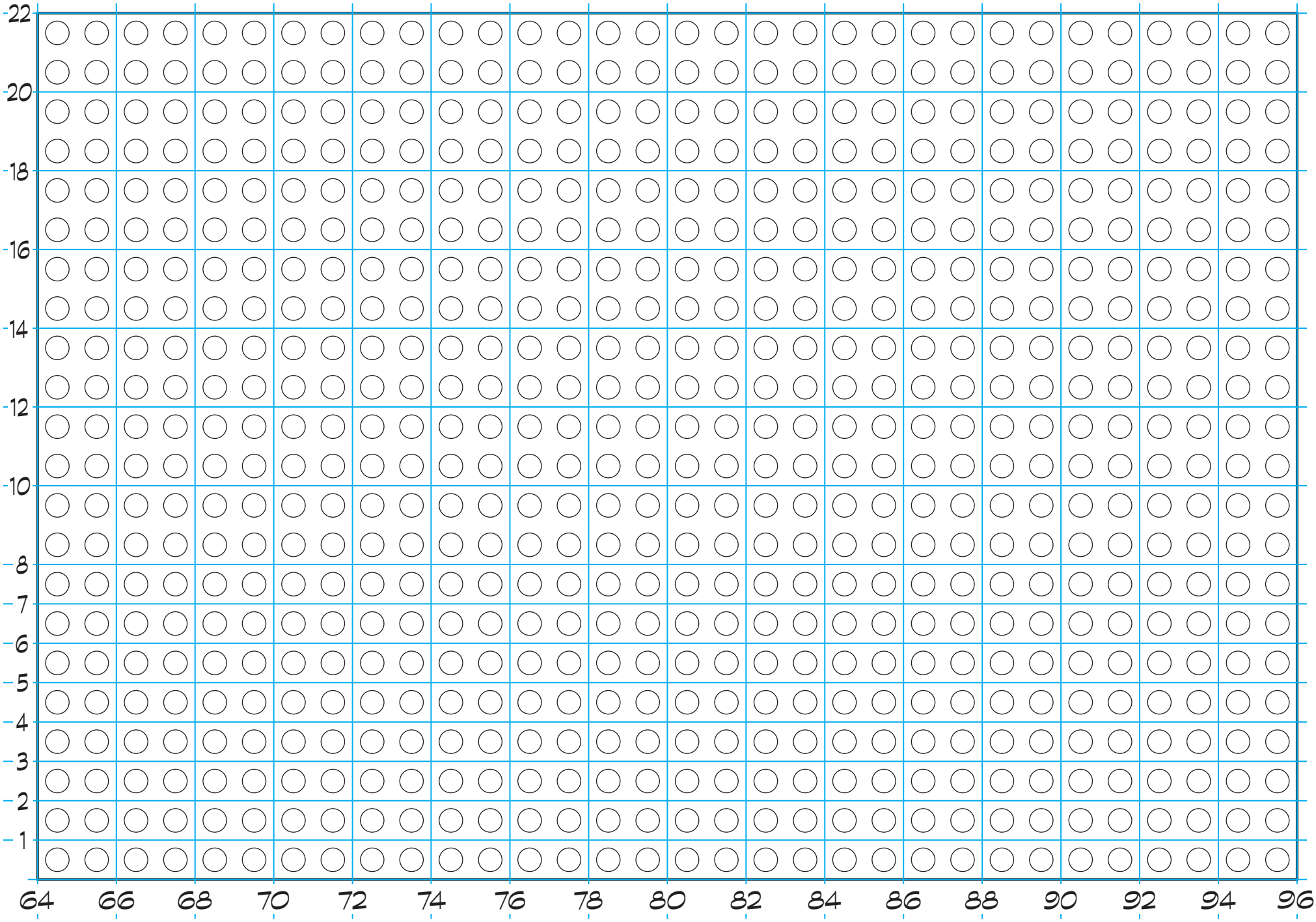

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Stud View

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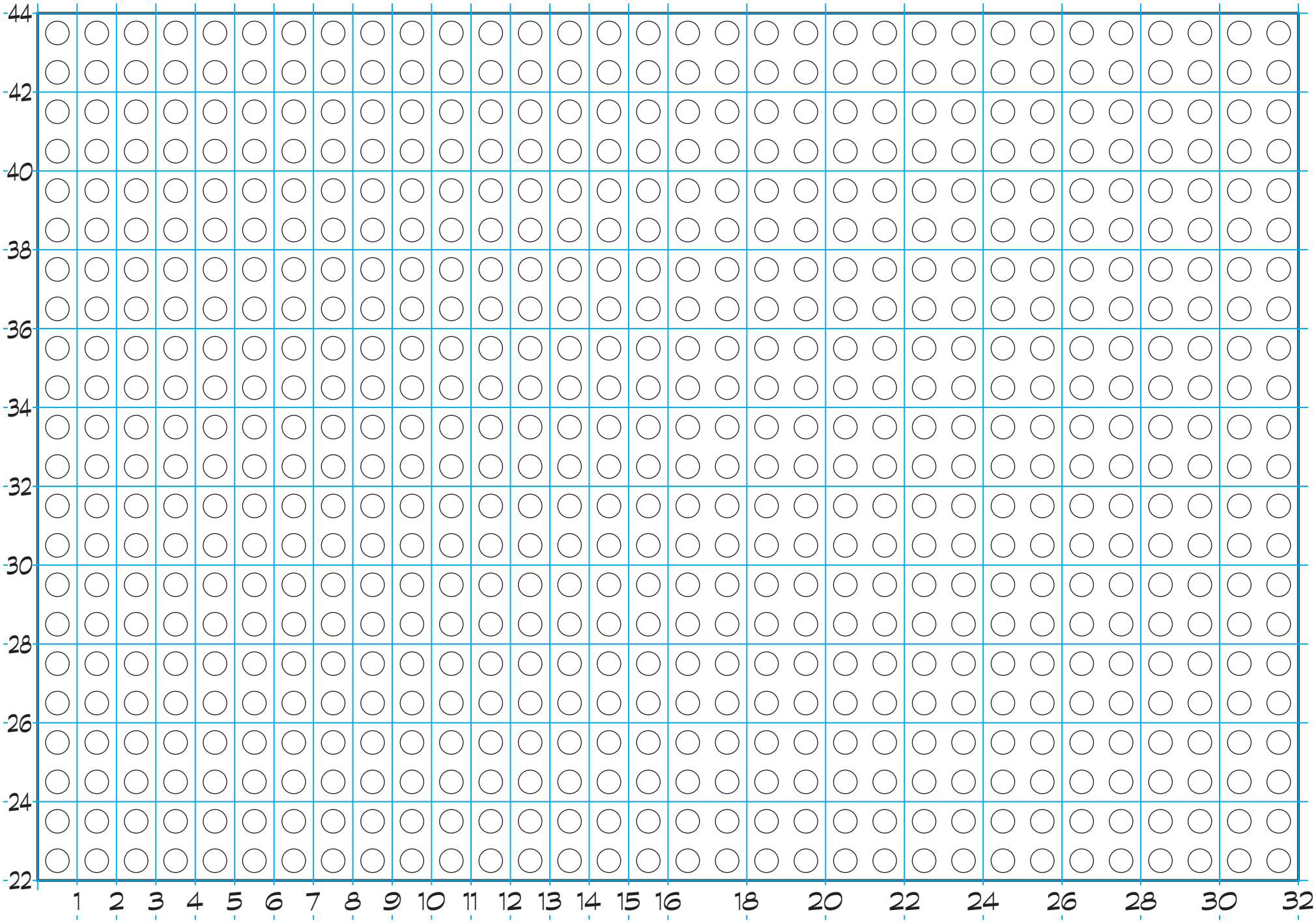

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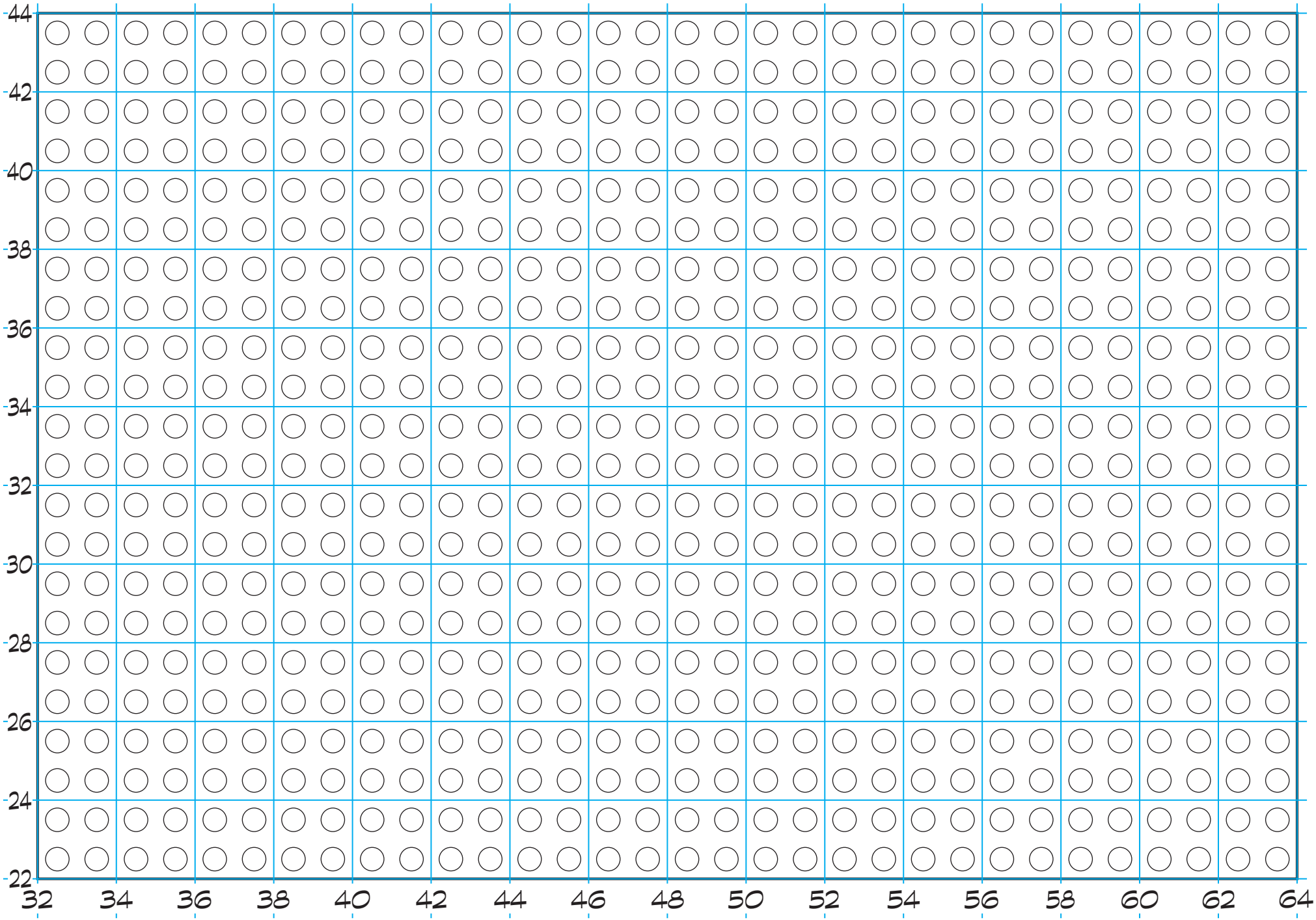

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Stud View

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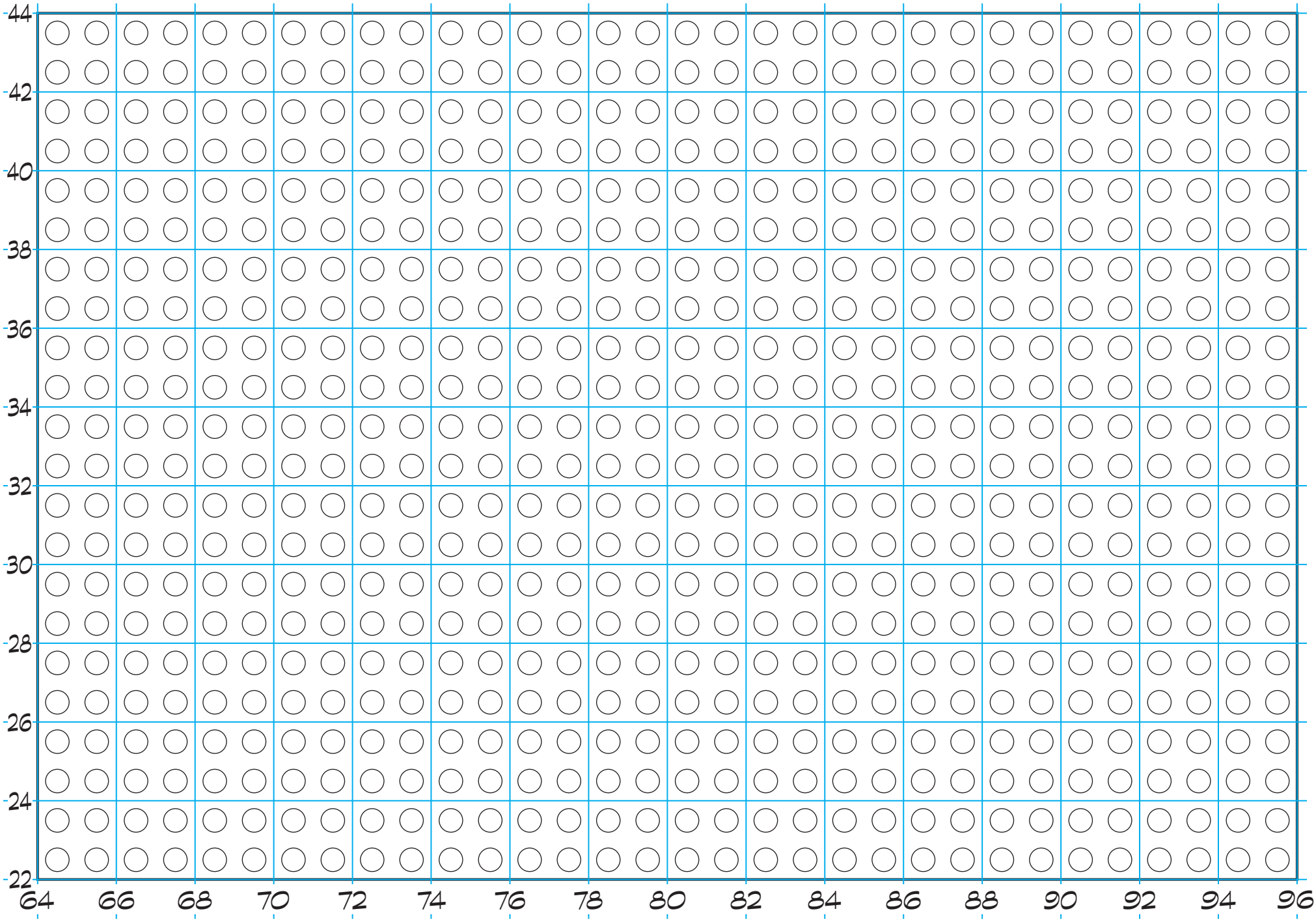

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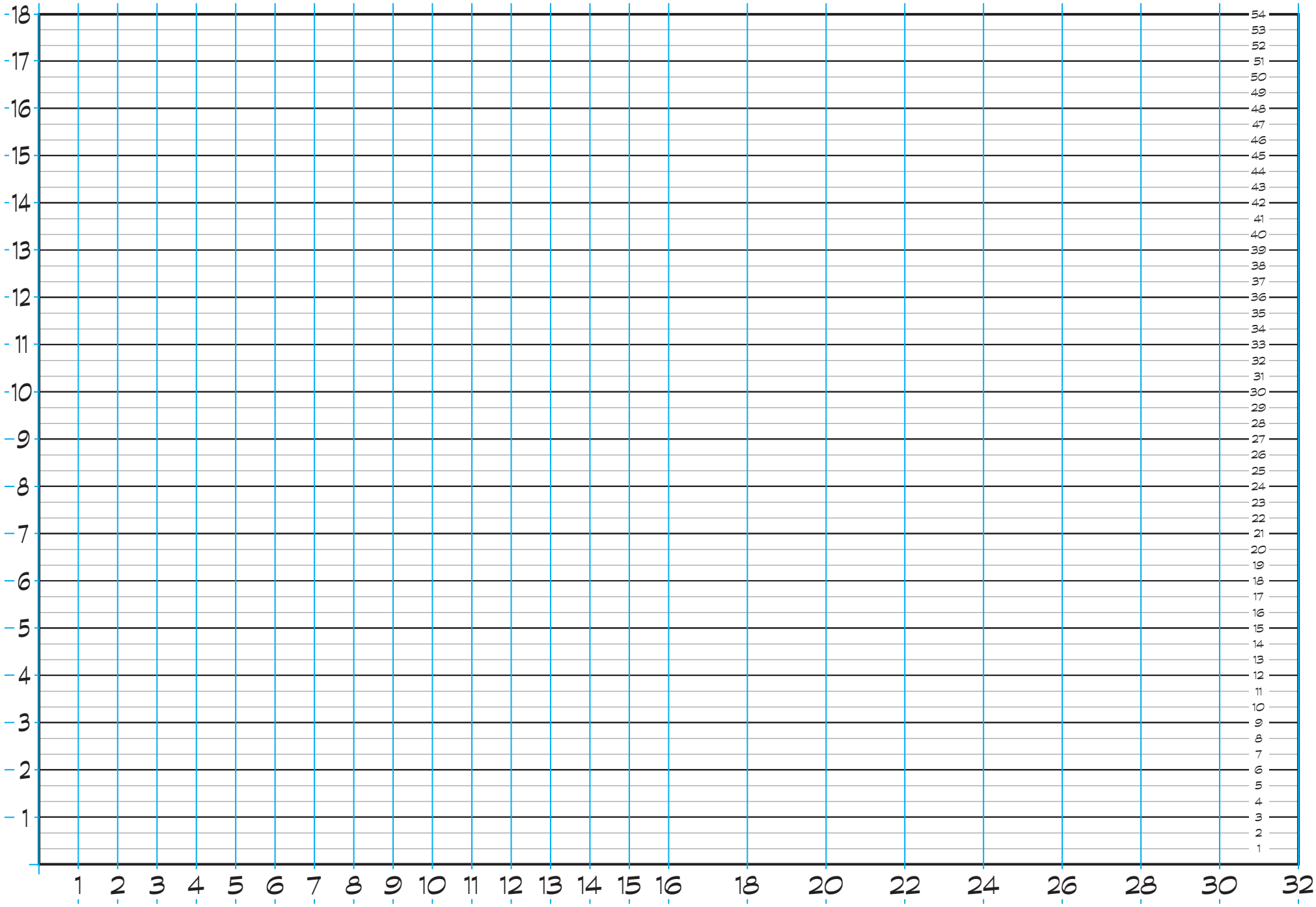
LEGO® Dimension Guides

Brick/Plate View

dimensions.brickgun.com



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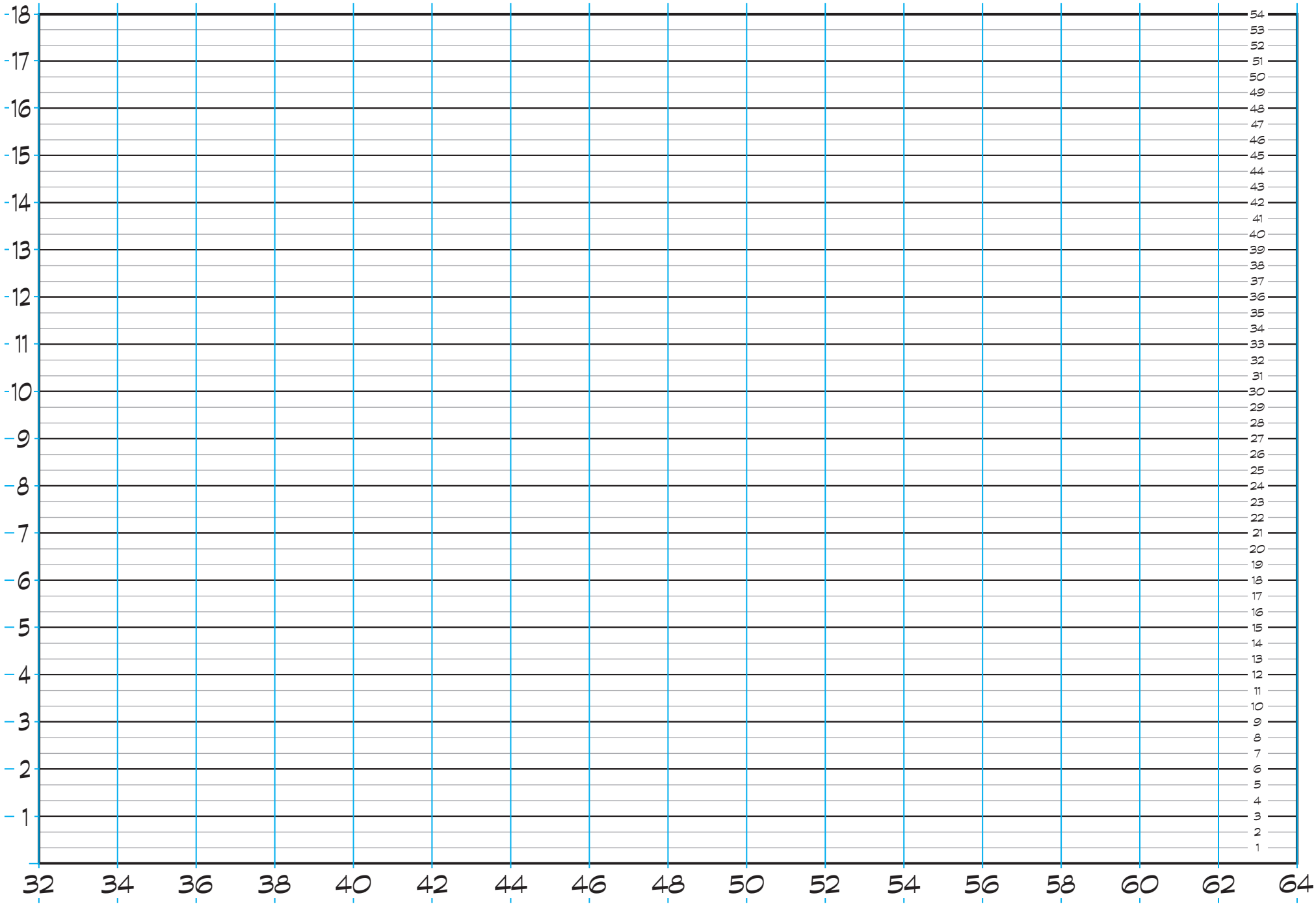

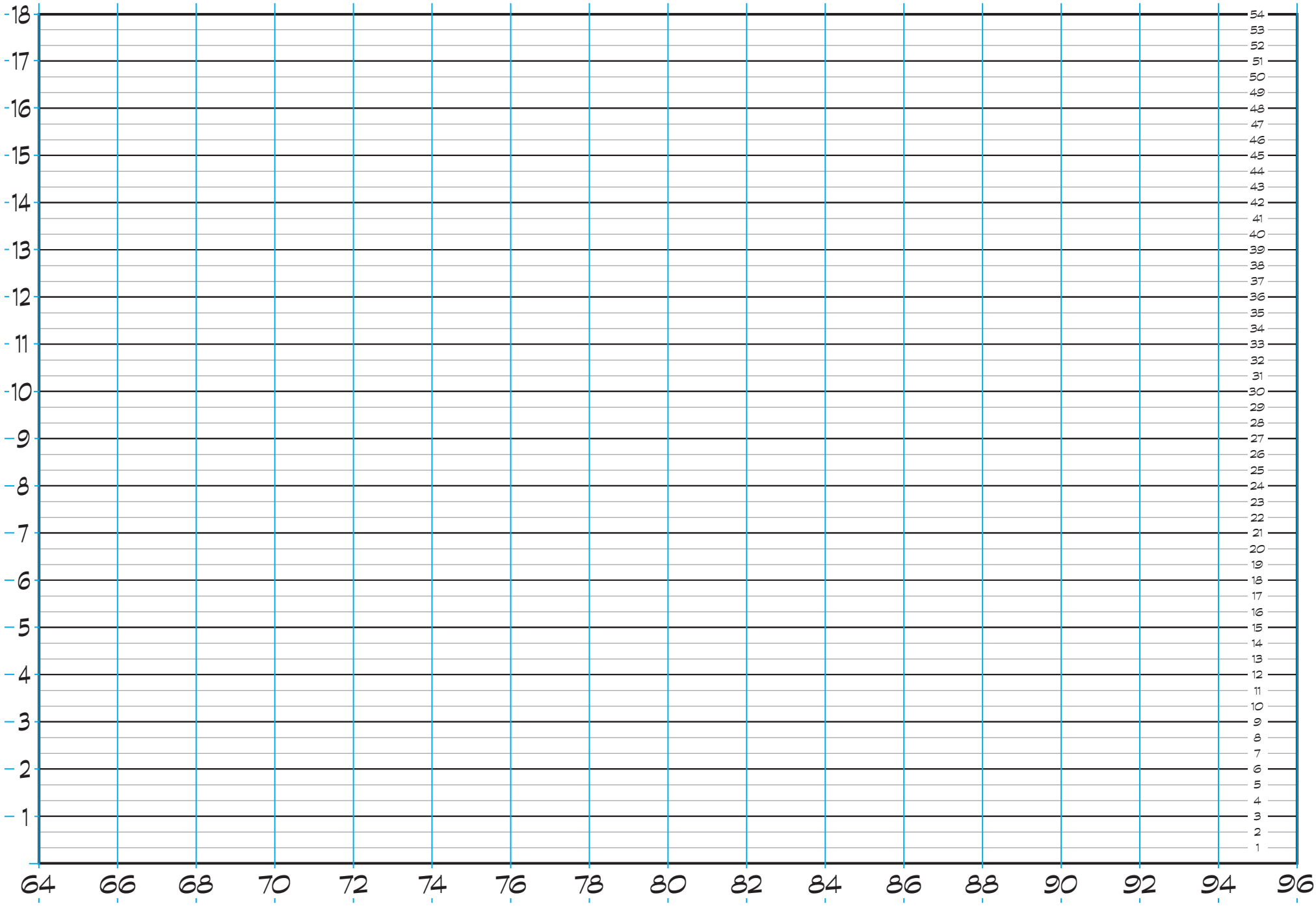

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Brick/Plate View

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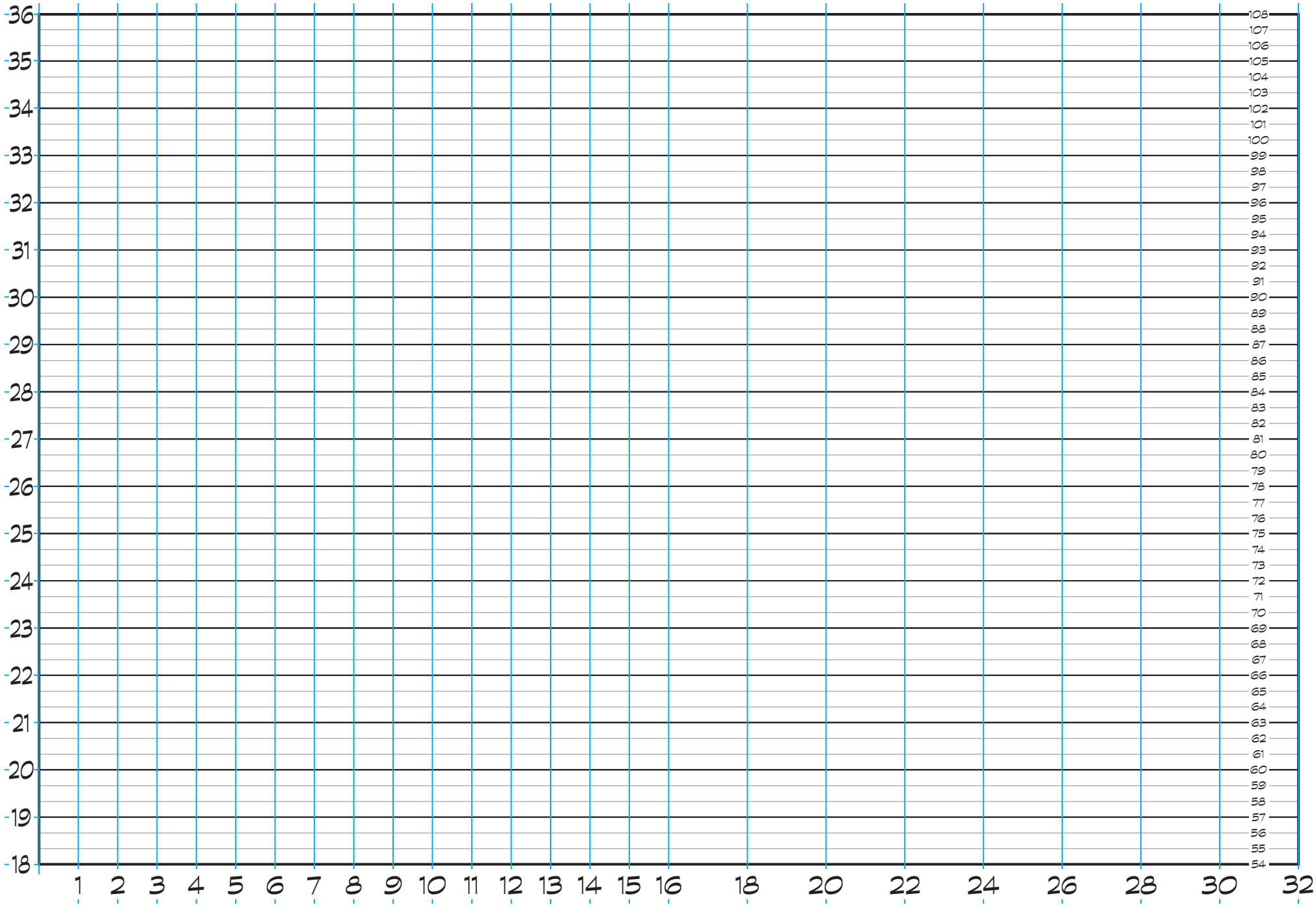

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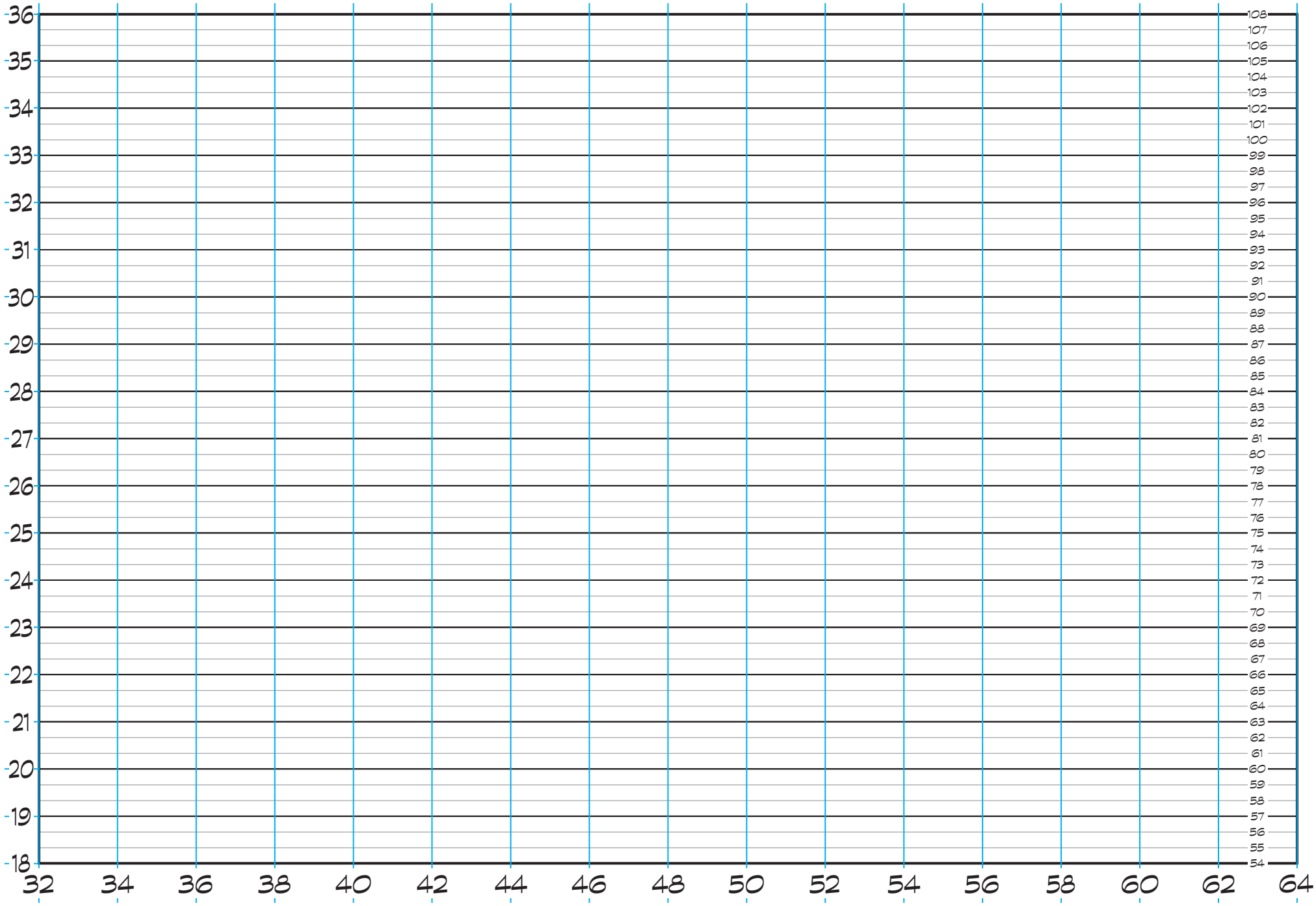
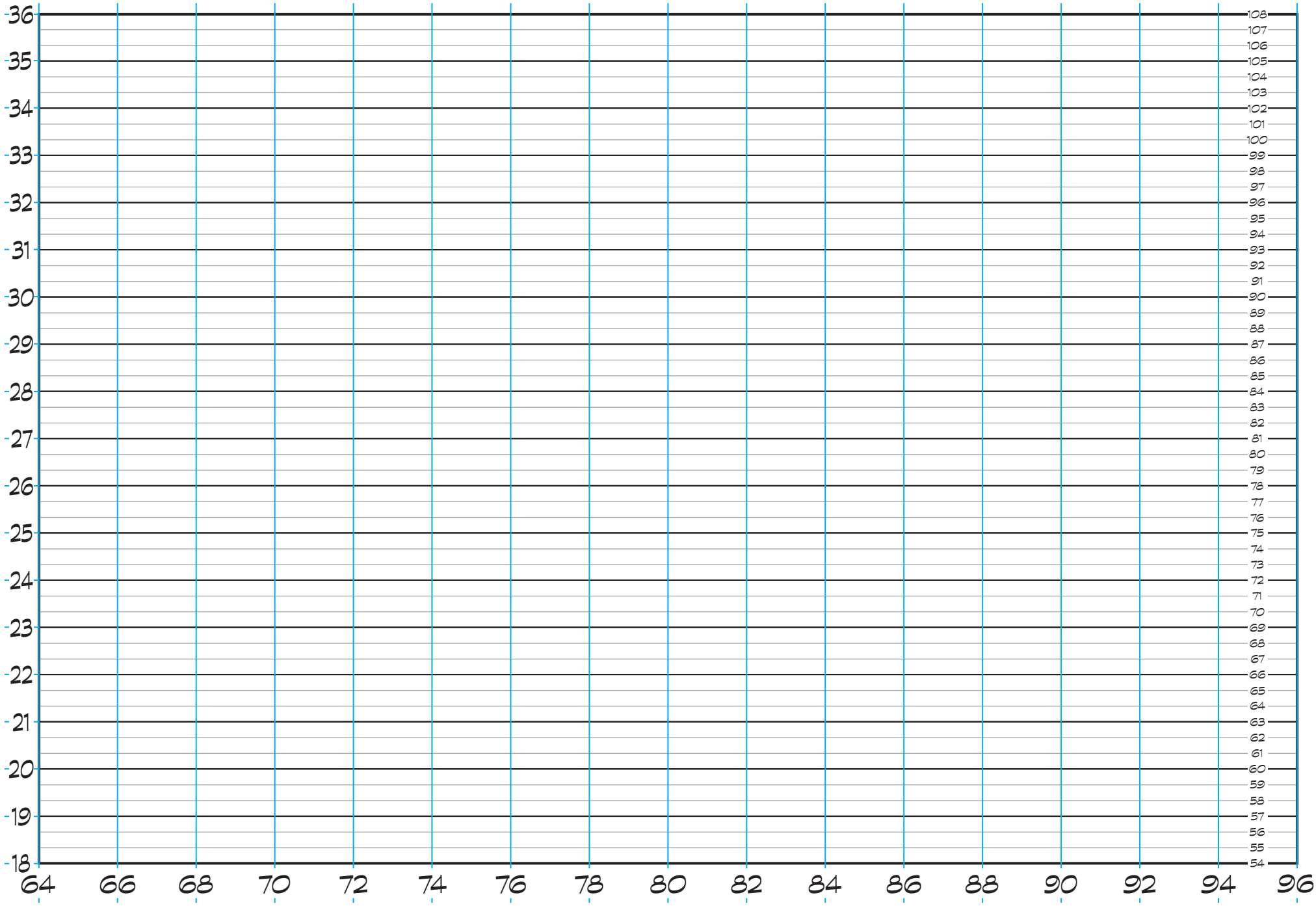
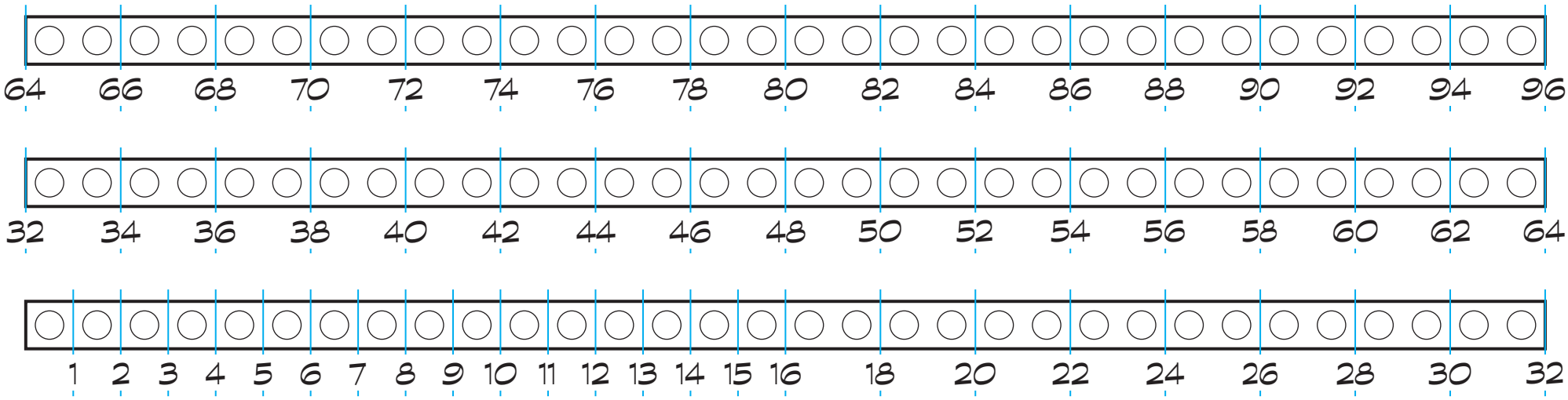




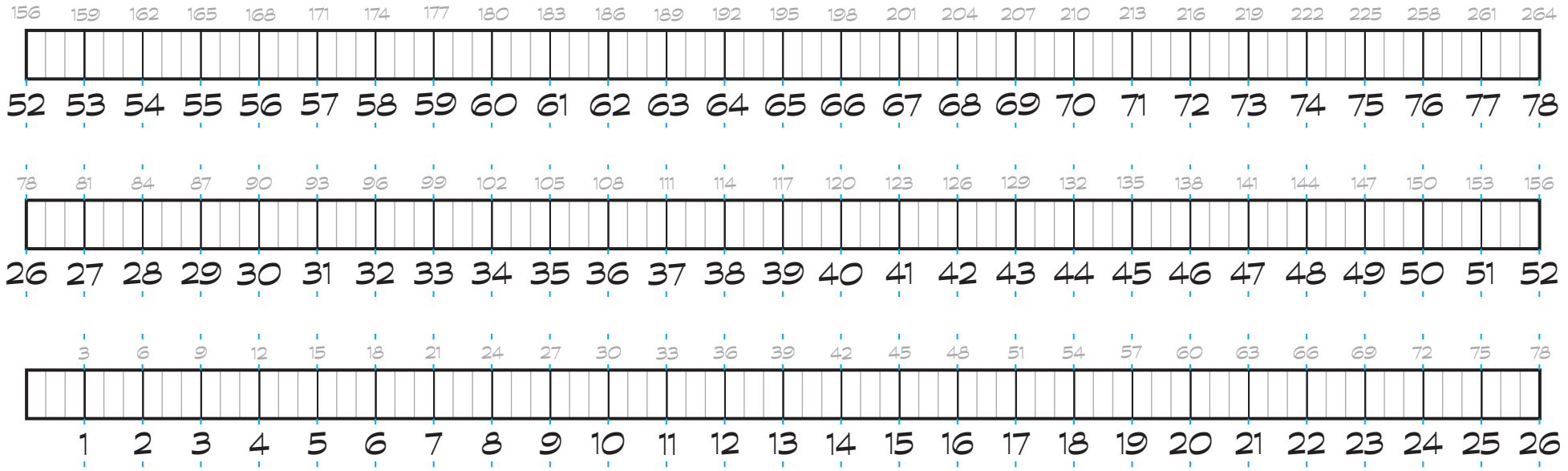
Bricks

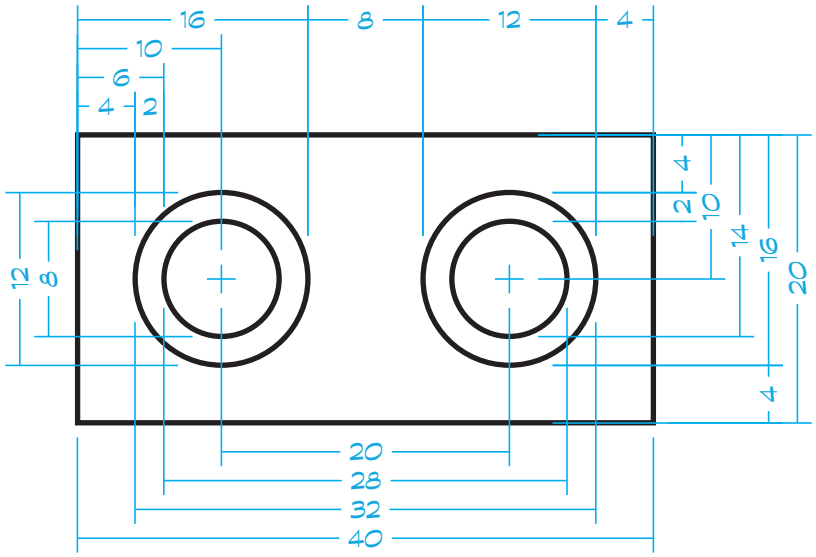
Studs

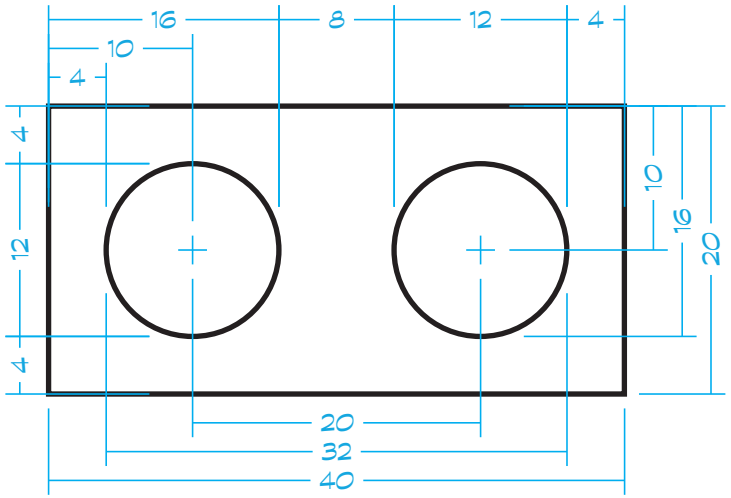


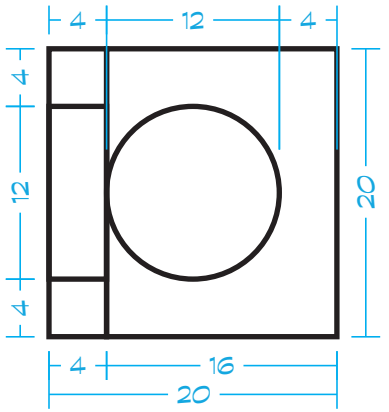
Bricks

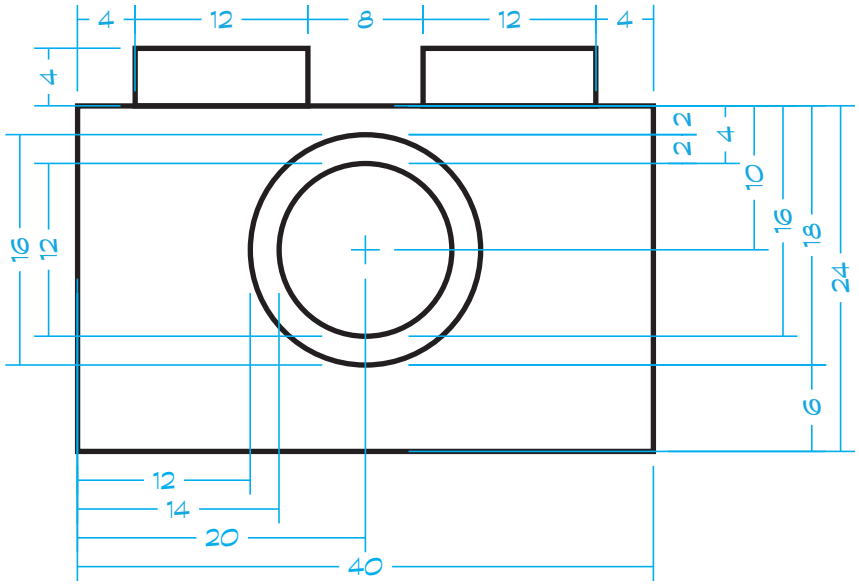
Bricks/Plates

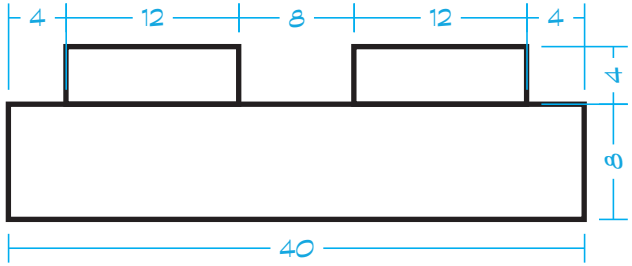


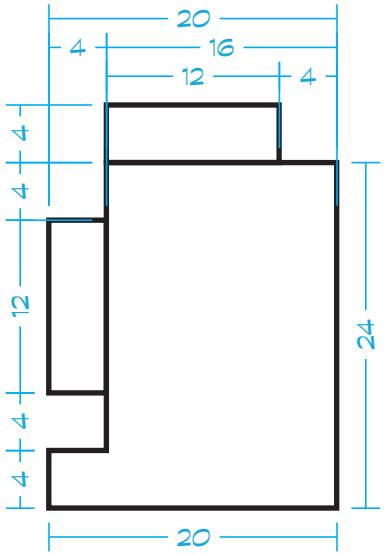










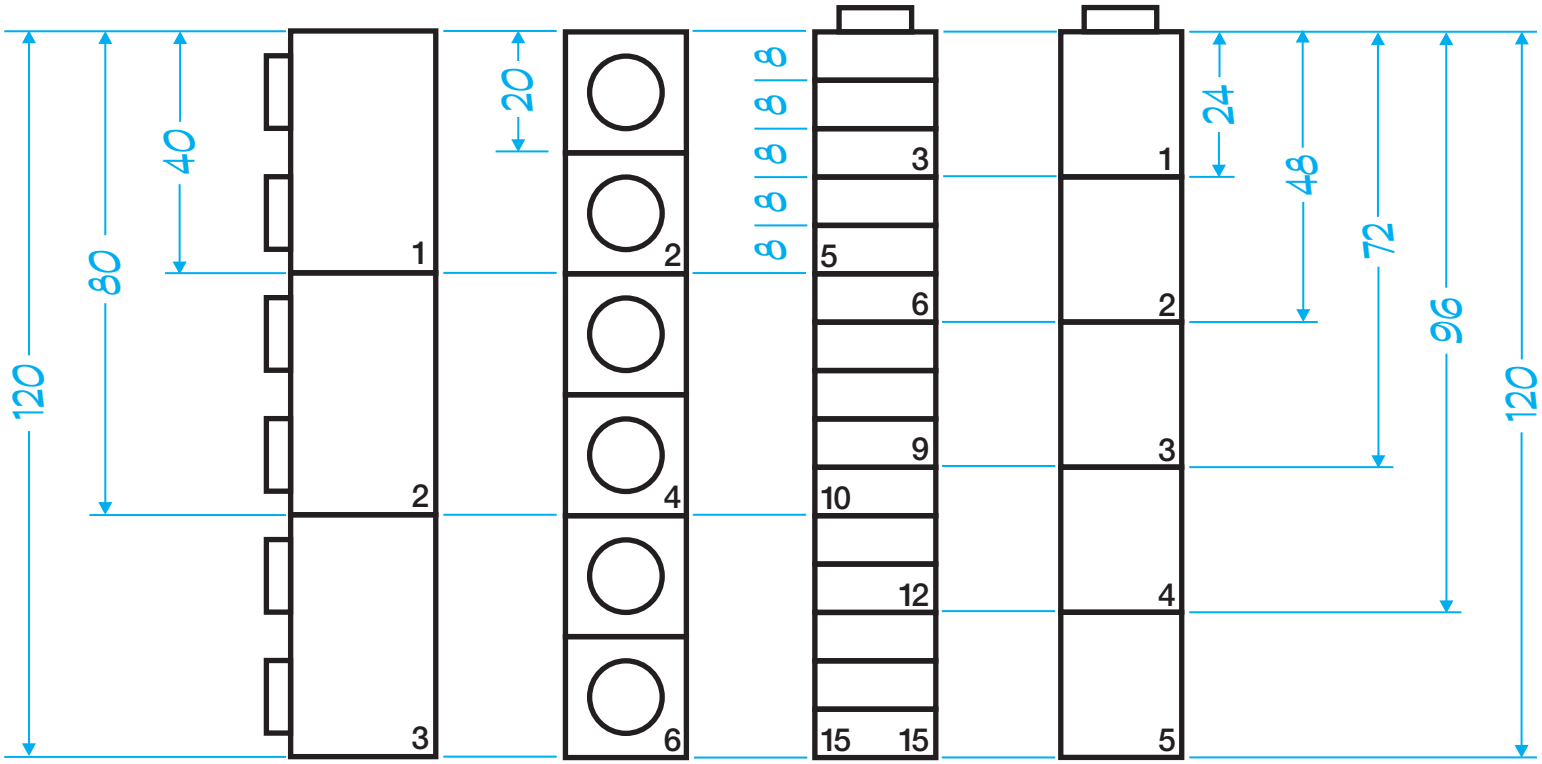


All dimensions in LDraw Units

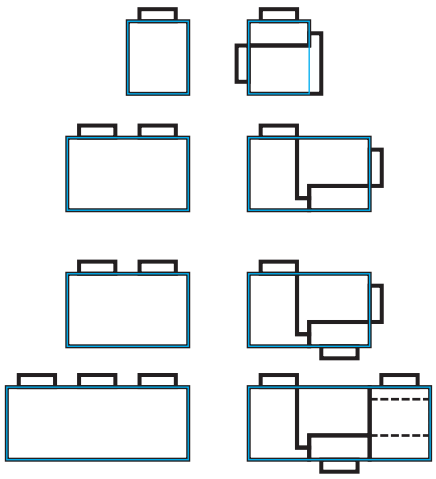
(1 LDU = 0.4mm)

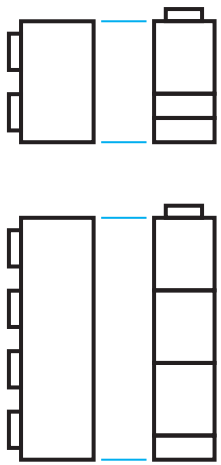
LEGO® Brick Equivalencies

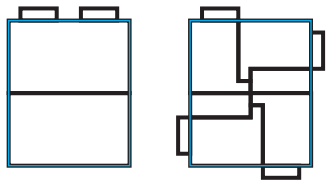
dimensions.brickgun.com

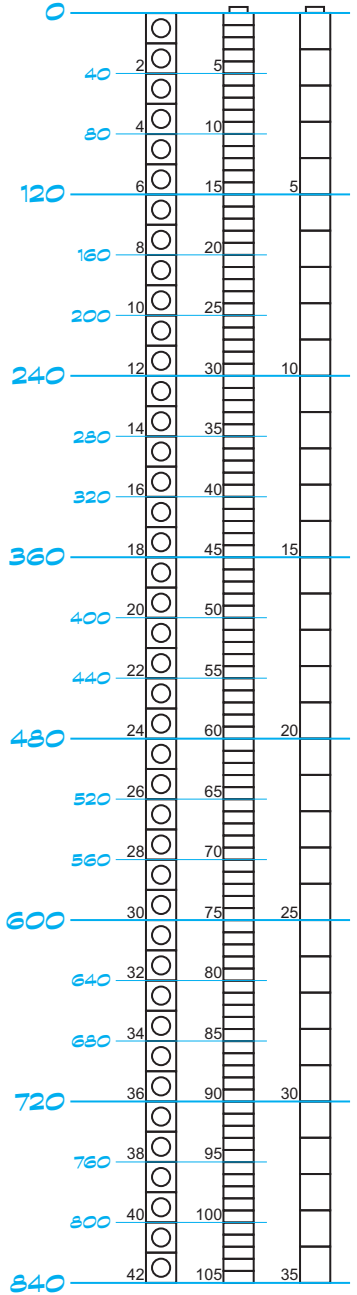


All dimensions
in LDraw Units
(1 LDU = 0.4mm)









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