INSIDE THE GOLDEN DOME

5

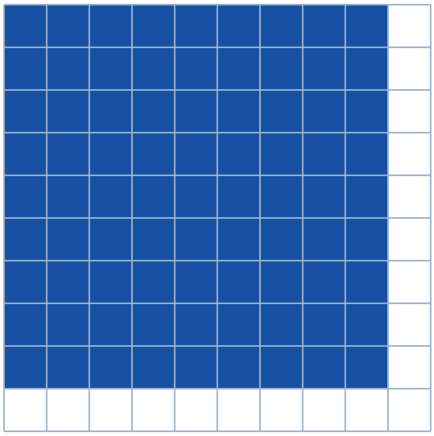
STATIONS



ELECTION MORNING

Name _____ Group _____ Date _____

The news called Maura Healey the winner with 81% reporting. The blue part of our 100-square model shows that reporting progress.



1. Blue rectangle: 9 rows of 9

_____ × _____ = _____ square units

2. White area: 100 − _____ = _____

3. Circle what 81% describes:
reporting progress / Healey's vote share

OUR MISSION
Measure flags, study a governor's basketball story, protect a historic document, and investigate a fish hanging in the State House.

Teacher's 6:49 a.m. snapshot, November 4, 2026. Healey's vote share shown there is 62.75%. This grid does not represent 100 actual ballots.

FLAGS WORTH A CLOSER LOOK

HALL OF FLAGS

Memorial Hall honors Massachusetts military service. Its historic flag collection needs special care. The tour explains that copies help protect the originals.



Above: the real Memorial Hall. At this table: paper reproductions of the Massachusetts flag.

MEASURE THE PRINTS ON MAT 1

1 Before measuring, I estimate the large flag covers _____ cm^2.

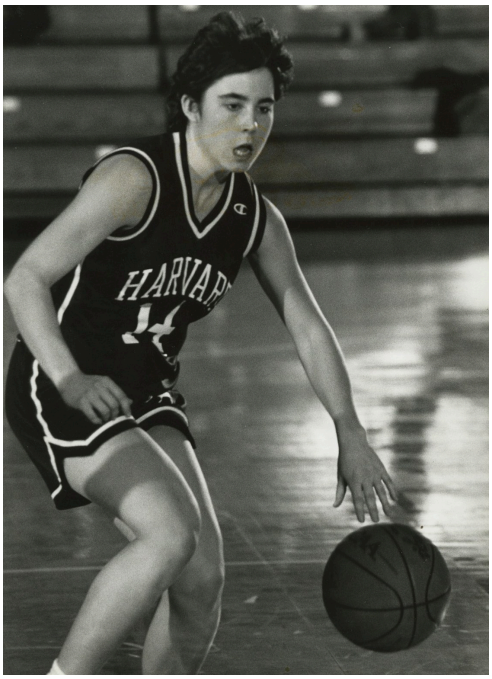
LARGE FLAG	_____ cm × _____ cm = _____ cm^2
SMALL FLAG	_____ cm × _____ cm = _____ cm^2

2 How much more paper does the large flag cover?

3 Both side lengths double. Circle what happens to the area:

twice as much **four times as much** **the same**

THE GOVERNOR'S GAME



NUMBER 14 AT HARVARD

Maura Healey grew up as the oldest of five children. Her mother was a school nurse. Her stepfather was a teacher and basketball coach.

She co-captained Harvard's team, then played professionally in Austria for two years.

She lives in Arlington with her partner, Joanna, and their family.

TWO PRINTS TO MEASURE ON MAT 2

1 Estimate the court print's area: about _____ cm^2.

2 Measure the court to the nearest whole centimeter.

About _____ cm × _____ cm = about _____ cm^2

3 Measure the basketball photograph's rectangular border.

_____ cm × _____ cm = _____ cm^2

4 Which print covers more paper? court / photograph

Court model: scale 1 cm = 10 feet, using NCAA dimensions. Your core answers describe the prints. Optional real-court scale challenge is on Mat 2.

THE DOCUMENT THAT GUIDES US



John Adams was the main writer of the Massachusetts Constitution of 1780.

It sets rules for government and protects rights.

This State House mural shows Adams at work with Samuel Adams and James Bowdoin.

Albert Herter painted this mural in 1942 for the House chamber. The document reproduction on Mat 3 comes from the Commonwealth Museum.

HOW MUCH BLUE DISPLAY MAT IS VISIBLE?

1 Measure the two rectangles on Mat 3.

Outside: _____ cm × _____ cm = _____ cm^2

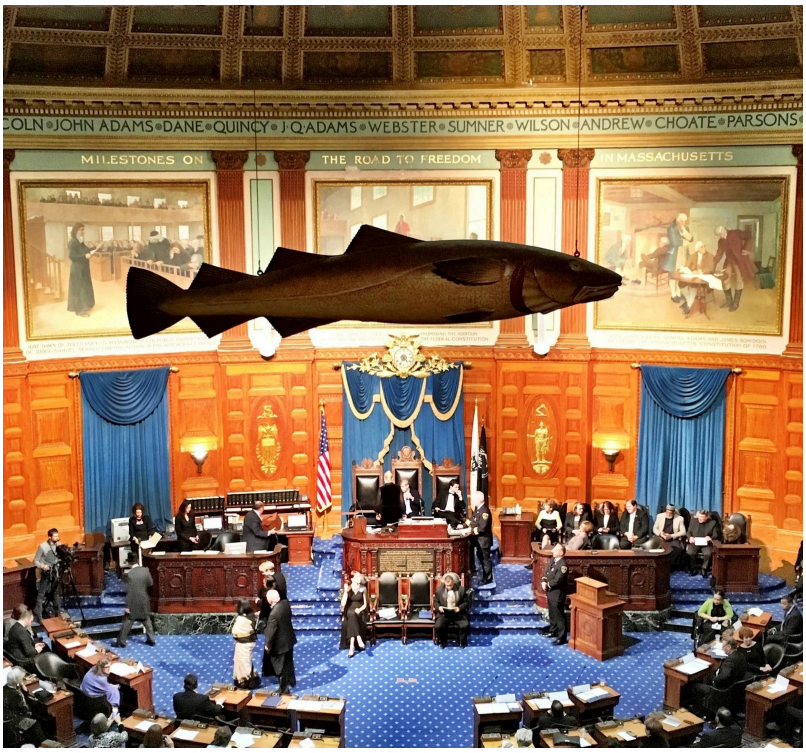
White window: _____ cm × _____ cm = _____ cm^2

2 Subtract the window area from the outside area.

_____ cm^2 – _____ cm^2 = _____ cm^2 of blue mat

HANDS-ON EXTRA: Lay a classroom pen flat on grid paper. Trace its outline and estimate its footprint. Write the units on your grid. This pen is a classroom prop.

A FISH IN THE HOUSE





LOOK UP!

The Sacred Cod hangs in the House chamber. John Rowe gave this wooden fish in 1784. It honors the importance of fishing in Massachusetts.

Its fins and tail make an irregular outline.

COUNT THE FISH ON MAT 4

1 The whole grid is a rectangle. Find its area.

$12 \times 4 =$ _____ cm^2. Hint: two groups of 6×4.

2 Count full squares in the fish. Combine the edge pieces.

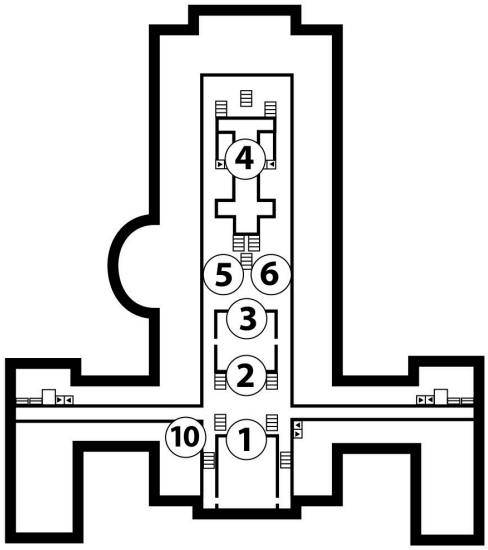
_____ full + about _____ from pieces ≈ _____ cm^2

3 Why is the fish's area smaller than the grid's area?

Measure the flat fish shape in the photograph. Leave out its shadow, wires, and background.

BLUEPRINT DETECTIVES





The State House opened in Boston in 1798. On this second-floor map, find 1: Doric Hall, 3: Memorial Hall, and 4: the Great Hall. The photograph shows the Great Hall.

ESTIMATE THE PRINTED FOOTPRINT ON MAT 5

1 The grid is 8 cm by 9 cm. Its area is _____ cm^2.

2 Count inside the outside building outline. Ignore room lines.

_____ full + about _____ from pieces ≈ _____ cm^2

3 The printed building covers more / less than the whole grid.

4 Could we find the real floor area without a map scale?

This official tour drawing has no real-world scale. Your answer is the area of the print.

EXIT TICKET / INDEPENDENT WORK

YOUR FINAL DISPLAY



A museum makes a rectangular sign for the Sacred Cod. The sign is 8 cm × 6 cm. Its photograph covers 5 cm × 4 cm.

1 Find the area of the whole sign.

2 Find the area outside the photograph. Show both steps.

3 Name one station where an estimate made sense. Explain.

4 One real State House or governor fact I will remember:

X / ADVANCED ALTERNATIVE TO STATION 5

A ROOM UNDER THE DOME



The Senate Chamber sits below the gold dome. The official tour describes it as 55 feet square: 55 feet long and 55 feet wide.

A SCALE MODEL WITH DECIMALS

1 Mat X uses 1 cm for 10 feet. Measure the model's side.

Side: _____ cm. Base area: _____ × _____ = _____ cm^2

2 A classroom box model uses that base and a chosen height of 2 cm. What is its volume?

_____ cm^2 × 2 cm = _____ cm^3

3 Bonus: find the real room's square footprint: 55 × 55.

The box's 2 cm height is a design choice. It does not tell us the actual ceiling height or the volume of the real chamber.