

Ford vs. Honda: What do the MPG distributions look like?

Use this PDF digitally or as a clean-copy template for your activity portfolio. Printing before class is not required.

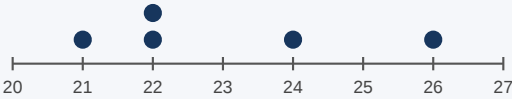
DATA: 2026 MODEL YEAR - COMBINED MPG

Ford	
Model	Combined MPG
Mustang	26
Maverick	38
F-150	20
Ranger	21
Escape	30
Bronco Sport	27
Bronco	20
Explorer	23
Expedition	19

Honda	
Model	Combined MPG
Accord	32
Civic	34
Prelude	44
HR-V	28
CR-V	40
Odyssey	22
Passport	21
Pilot	21
Ridgeline	21

Example dotplot

Data: 21, 22, 22, 24, 26

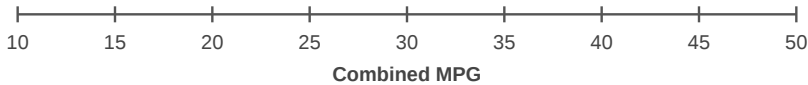


DOTPLOTS

Place one dot above each MPG value. Stack repeated values vertically. Keep the dots about the same size and use the same scale for both brands.

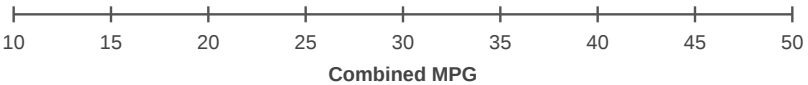
1. Ford dotplot

One dot = one Ford model



2. Honda dotplot

One dot = one Honda model



Portfolio reminder: Keep a clean copy. These activities can help you build your Exam 1 reference sheet.

Stemplots: Preserve the original values while revealing the distribution

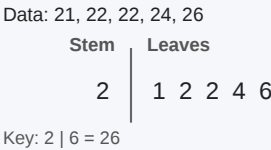
Data for this page

Ford: 19, 20, 20, 21, 23, 26, 27, 30, 38

Honda: 21, 21, 21, 22, 28, 32, 34, 40, 44

Stemplot key for this activity: 2 | 6 = 26 MPG

Example stemplot



STEMPLOT REMINDERS

Sort leaves from smallest to largest | Keep stems and leaves aligned | Show empty stems when there is a gap | Do not use commas between leaves

3. Ford stemplot

Create from the Ford data

Stem	Leaves

4. Honda stemplot

Create from the Honda data

Stem	Leaves

5. Back-to-back stemplot

Ford left, Honda right

Ford leaves	Stem	Honda leaves
	1	
	2	
	3	
	4	

INTERPRET THE DISTRIBUTIONS

1. Which brand appears to have the higher typical combined MPG? What in the plots supports your answer?
2. Which brand shows greater spread in combined MPG? Explain what you see.
3. Describe any clusters, gaps, or unusual values that stand out in either distribution.
4. How might the brands' different mixes of cars, SUVs, trucks, and hybrids help explain the distributions?

Portfolio: This activity is not graded. Keep a clean version for your portfolio and use it when preparing your Exam 1 reference sheet. If your in-class work is messy or incomplete, use this PDF later to recreate a clean, useful version.