

Algebra 1
Dot Plots

Dot Plots | A1-U10-P03
96 problems · Four activity formats

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Topic focus
Across 96 tasks this topic asks for uniform labeled axis, occupied coordinates, exact stack heights, empty ticks, and total dot count, mapped or edited individual coordinates, normalized new stacks, total dots, and unit, qualifying coordinates, contributing stack heights, exact event count, and total count, feature claim, exact coordinate/stack evidence, and interpretation limit, decoded frequencies, ordered observations, total count, and treatment of empty ticks and specific display defect, source-to-dot audit, corrected stacks or axis, and key.
8 PDFs and a README; 207 buyer pages.

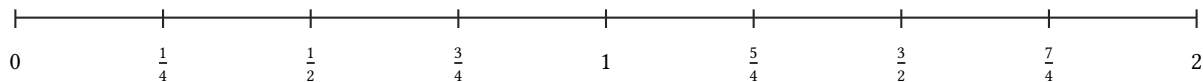
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Name: _____ Date: _____ Class: _____

Answer each question and record the matching bank letter. Give exact values. A value without its unit is not a complete answer.

Quarter-unit data leave several exact empty ticks. Plot one dot for each kilogram observation on a uniform number line from 0 to 2 with tick spacing $\frac{1}{4}$: $\frac{1}{4}$, $\frac{1}{2}$, $\frac{1}{2}$, $\frac{5}{4}$, $\frac{7}{4}$. Give the exact stack height at every occupied coordinate and retain empty ticks. Do not round quarters to tenths. Match the complete originally requested plot, qualifying-stack/count response, or reconstructed data with its dot key and units. A constructed dot plot must remain a plotted response, not just a count.



Raw observations	$\frac{1}{4}, \frac{1}{2}, \frac{1}{2}, \frac{5}{4}, \frac{7}{4}$	
Axis	Start	0
	End	2
	Tick step	$\frac{1}{4}$
	Ticks	$0, \frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1, \frac{5}{4}, \frac{3}{2}, \frac{7}{4}, 2$
	Uniform	Yes
Key	one dot represents one observation	
Unit	kilogram	

Bank label: _____

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Name: _____ Date: _____ Class: _____

Answer each question and show your reasoning in the workspace. Give exact values rather than decimals unless the question supplies a decimal. A value without its unit is not a complete answer.

Consecutive supports have four different stack roles. An exact dot plot on a uniform goal axis from 0 to 3 with step 1 has stacks 0:1 displayed dot, 1:2 displayed dots, 2:4 displayed dots, 3:2 displayed dots; one displayed dot represents 1 observation. Reconstruct the ordered data and a value-frequency table, explicitly accounting for empty ticks. List values in coordinate order.



Axis	Start	0
	End	3
	Tick step	1
	Ticks	0, 1, 2, 3
	Uniform	Yes
Stacks	(Coordinate 0; Displayed dots 1), (Coordinate 1; Displayed dots 2), (Coordinate 2; Displayed dots 4), (Coordinate 3; Displayed dots 2)	
Key	one displayed dot represents 1 observation	
Unit	goal	

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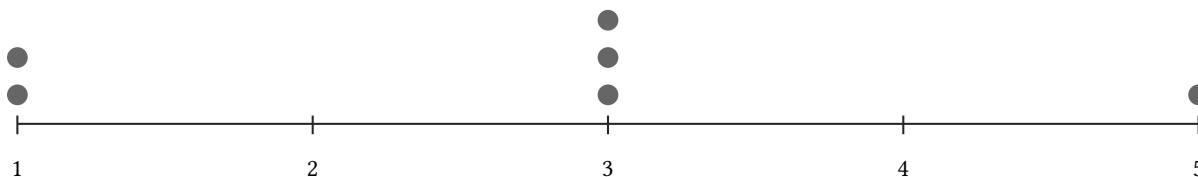
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Name: _____ Date: _____ Class: _____

Begin at START. Answer the card, then find the matching final answer at the top of another card. Use the recording sheet for your reasoning. Visit each card once and continue to FINISH.

Incoming: condition: at most $-\frac{3}{2}$; count: 3; qualifying stacks: (coordinate: $-\frac{5}{2}$; dots: 2), (coordinate: $-\frac{3}{2}$; dots: 1); total: 8; unit: degree

The excluded value has no dot. The exact dot plot uses book coordinates on a uniform axis with step 1; its occupied stacks are 1:2, 3:3, 5:1. How many observations are not equal to 4? State which stacks count and handle endpoint inclusion exactly. Every observed dot remains in the event. Match the complete originally requested plot, qualifying-stack/count response, or reconstructed data with its dot key and units. A constructed dot plot must remain a plotted response, not just a count.



Axis	Start	1
	End	5
	Tick step	1
	Ticks	1, 2, 3, 4, 5
	Uniform	Yes
Stacks	(Coordinate 1; Dots 2), (Coordinate 3; Dots 3), (Coordinate 5; Dots 1)	
Key	one dot represents one observation	
Unit	book	
Condition	not equal to 4	

Your response: _____

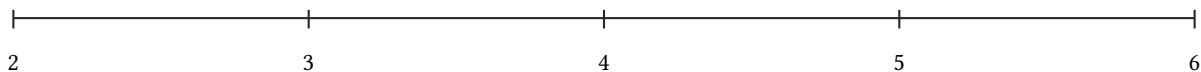
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Evaluate the supplied statement or method. Say whether it is correct, repair it if it is not, and verify the result exactly. Not every prompt contains an error.

Three distinct observations need three separate marks. Plot one dot for each score observation on a uniform number line from 2 to 6 with tick spacing 1: 2, 4, 6. Give the exact stack height at every occupied coordinate and retain empty ticks. Ticks 3 and 5 remain empty. Choose a construction strategy: tally each coordinate frequency before drawing, or place dots in source order and then audit the stacks. Justify the efficient choice for these repetitions, then construct the exact original plot and verify the total.



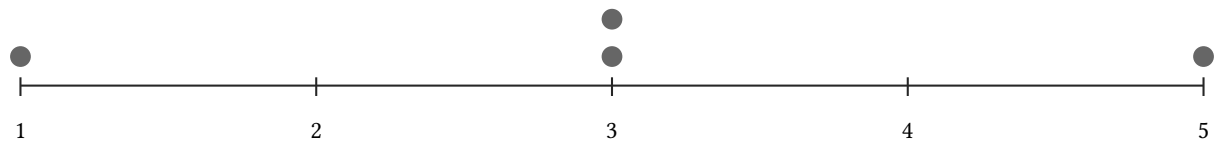
Raw observations	2, 4, 6	
Axis		
	Start	2
	End	6
	Tick step	1
	Ticks	2, 3, 4, 5, 6
	Uniform	Yes
Key	one dot represents one observation	
Unit	score	

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Full Worked Solutions - excerpt

Worked example

Problem. Compare the repeated source value with its stack height. Source evidence: raw ratings 1, 3, 3, 3, 5 Proposed dot display: stacks 1 : 1, 3 : 2, 5 : 1 Diagnose the exact one-to-one, coordinate, key, or axis error and state a corrected display.



Source evidence	raw ratings 1, 3, 3, 3, 5
Proposed display	stacks 1:1, 3:2, 5:1
Declared key	one dot represents one observation
Unit	rating

Answer. correction: use stacks 1 : 1, 3 : 3, 5 : 1 for five total dots.; diagnosis: one repeated observation at coordinate 3 is missing; key: one dot represents one observation; unit: rating

Explanation and check.

Audit: The source contains three copies of 3 but the proposal shows only two. Diagnosis: one repeated observation at coordinate 3 is missing. Correction: use stacks 1 : 1, 3 : 3, 5 : 1 for five total dots.