

Graphs & Data Interpretation

CKSTEM Math Problem Solving · Grades 4–8

Try each problem on your own first — then watch the solution videos.

★ Read the Scale

A small relief bar graph shows bottles handed out by station. The vertical axis is gridded so that one square equals 5 bottles. Station A reaches 4 squares tall and Station B reaches 3 squares tall. How many bottles did Station A hand out?

WORK IT OUT HERE

LO Graph + Clue

A bar graph shows snacks served Monday through Thursday: 20, 15, 25, 10. A clue at the bottom reads, 'On Friday, 5 more snacks were served than on Thursday.' How many snacks were served Monday through Friday in total?

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L1 Decode the Scale, Then Combine

A 'Supplies collected' bar graph is gridded so that one square equals 4 items. Blankets stand at 5 squares, Water at 7 squares, Food at 6 squares, Kits at 3 squares. How many more items were Water and Food combined than Blankets and Kits combined?

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L2 Compare the Pair

A double bar graph for 'Needed vs Delivered' shows Monday through Thursday. Needed: 25, 30, 35, 40. Delivered: 20, 30, 35, 35. What was the total shortage for the week?

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L3 Read the Jump

A line graph shows the water level in a reservoir at 1, 2, 3, 4 and 5 pm: 10, 18, 21, 33, 36 cm. What was the biggest one-hour rise during the afternoon?

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L4 Subtract for the Interval

A cumulative line graph shows total meals delivered by end of day for Days 1–4: 40, ?, 160, 220 — a straight line. Day 2 is shown only as '?' between gridlines and must be derived. Day 3's meals were split between two teams in a 2:1 ratio. How many meals did the larger team deliver?

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L5 Link Two Graphs

Graph A is a cumulative line of meals delivered with end-of-Week 1 at 120 and end-of-Week 2 at 300. Graph B is a bar chart of teams working in Week 2, showing 6 teams. How many meals did each team deliver in Week 2?

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L6 Data Detective

A cumulative line graph shows total meals delivered by end of day for Days 1–4: 60, 180, 260, 300. Phase 1 (Days 1–2) ran with 5 teams; Phase 2 (Days 3–4) ran with 4 teams. By how much did each team's per-day rate drop from Phase 1 to Phase 2?

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