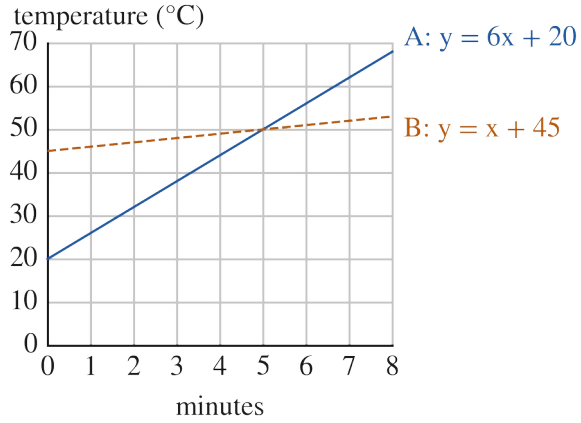
Systems in Context; Approximate Solutions

Independent Set 11.08

Name_____
Date_____
Period_____

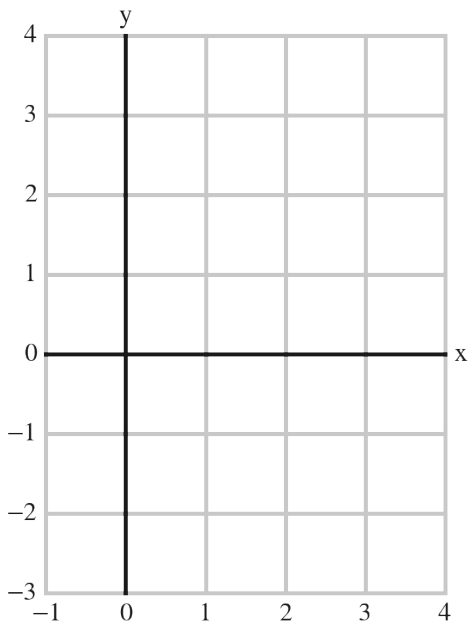
Six questions, on your own, in silence. Show the step that does the work.

1. Pot A of water is 20°C and warms 6°C a minute. Pot B is 45°C and warms 1°C a minute. When are they the same temperature, and what is it?



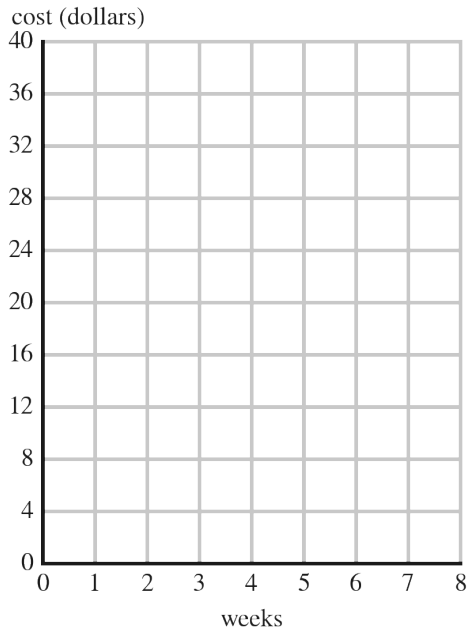
2. Music lessons cost $y = 9x + 24$ dollars for x lessons with plan A and $y = 15x$ dollars with plan B. The graphs cross at $(4, 60)$. What does that point mean?

3. Graph both lines and estimate the solution: $y = 2x - 2$ and $y = -x + 2$



4. Shop A sells shirts for $7 each plus $15 to ship. Shop B sells them for $12 each with free shipping. Write a system for the cost y of x shirts.

5. Club A costs $12 to join and $2 a week. Club B costs $5 a week. Graph both. Which club costs less for 6 weeks?



6. Lia has $25 and saves $4 a week. Omar has $40 and saves $4 a week. Graph both. Will they ever have the same amount? Explain.

