Finding and Interpreting Slope and Intercepts from an Equation

CLASS CODE

Finding and interpreting slope and intercepts from an equation.

Activity Checklist

- [ ] Complete the activity using student preview.
- [ ] Identify your learning targets for the activity.
- [ ] Determine the screens where you'll bring the class together using Teacher Pacing and Pause Class. What will you discuss on those screens?
- [ ] Anticipate screens where students will struggle, then plan your response.
- [ ] Plan a challenge for students who finish the activity quickly and successfully.
- [ ] Make yourself available during the activity to students for individual help and questions when appropriate.
- [ ] Write out your summary of the activity's main ideas. How will you pull student work into that summary? Which parts of the activity can you skip to ensure that summary receives sufficient time?

My Learning Targets:

Activity Screens: Teacher Pacing and Pause Class

Use this page to plan your use of Teacher Pacing and Pause Class. Teacher Pacing lets you restrict students to a single screen or a range of screens. Pause Class keeps students from interacting with whatever screens they are currently viewing. Use these two tools to create conversations in your classroom.

Consider these questions as you plan:

- Which screen(s) should everyone work on at the same time? Why?
- Which screen(s) do you want to keep students from seeing until you're ready for the class to see them together? (Perhaps because they reveal answers or require a whole class conversation for introduction.)
- Are there any points in the lesson where you will want to make sure students aren't playing with the screens while you discuss something as a class?

1 Slopes and equati…
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1 Slopes and equations

When given an equation in slope intercept form ($y = mx + b$) what represents the

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Answer in the box below.

My Notes:

2 Find and interpret slo…

The amount of water in a tank during the first hour after a leak started can be modeled by

The amount of water in a tank during the first hour after a leak started can be modeled by $V = -2t + 40$ where V is the volume of water in the tank in gallons t minutes after the leak started. Find the slope of this equation and interpret its meaning.

My Notes:

3 Find and interpret the …

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The amount of water in a tank during the first hour after a leak started can be modeled by $V = -2t + 40$ where V is the volume of water in the tank in gallons t minutes after the leak started. Find the V-intercept of this equation and interpret its meaning.

My Notes:

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The amount of water in a tank during the first hour after a leak started can be modeled by $V = -2t + 40$ where V is the volume of water in the tank in gallons t minutes after the leak started. Find the t-intercept of this equation and interpret its meaning.

My Notes:

5 Find and interpret slo…

The population of a town can be modeled by $P = 1.5t + 23$ where P is the population of the town in

The population of a town can be modeled by $P = 1.5t + 23$ where P is the population of the town in thousands of people, t years since 2010. Find the slope of this equation and interpret its meaning.

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The population of a town can be modeled by $P = 1.5t + 23$ where P is the population of the town in thousands of people, t years since 2010. Find the P-intercept of this equation and interpret its meaning.

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My Notes:

Summary Notes: