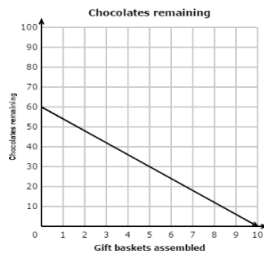


Created by Jackson Powell

Warmup $(1000 - 70) \div 100 = .01$

1. What is the slope of this graph? (CAREFUL!!!)



2. What does the slope represent?

REMINDER

- There are 30 minutes of ALEKS due by tomorrow!!!
- This will be the last grade entered into the gradebook for this 9 weeks!
- There will be no other homework tonight besides this.

Go over Table/Graph/Equation/Situation Problems

Which representation would be most useful?

- For each, choose which would be the most useful, and explain why:
 - The equation
 - The table
 - The graph
 - The verbal description
- Problem D: "The temperature was -11°F and has risen 4.5° per day."

1. What is the temperature after 2 days?
2. How quickly is the temperature rising?
3. When does the temperature hit 0° ?
4. How much does the temperature rise in 6 days?
5. What is the temperature after 30 days?
6. If the temperature is 45° , how many days went by?
7. What is the temperature after 3.25 days?

TODAY: Group Problems

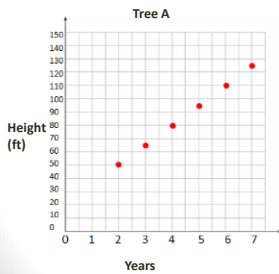
- For each problem, your group will solve the problem on a giant whiteboard.
- **YOUR WORK MUST BE ORGANIZED.** We should be able to clearly see your problem-solving process!!!
- I will select some groups to share their answers.

- Jack and Jill are selling cupcakes. Jack's total profit is given by the table to the left. Jill's total profit is given by the equation to the right. Who is gaining profit at a faster rate? How do you know?

Number	Cost
1	\$3.50
2	\$6.50
3	\$9.50
4	\$12.50
5	\$15.50

$$y = 2x + 20$$

Which tree is growing faster?



Tree B

Years	Height (ft)
0	4
2	22
4	40
7	67
10	94

Shipping packages...

- Suppose UPS charges a \$3.50 flat fee to ship a package. They also charge 20 cents per ounce.
 - Write an equation in slope-intercept form to represent the total cost of shipping x ounces. $y = 0.20x + 3.50$
 - How much would it cost to ship a 9-ounce package?
\$5.30
- At a different company, a 3 ounce package cost \$2.50 to ship and a 5 ounce package cost \$2.70 to ship.
 - How much does it cost per ounce? **\$0.10**
 - Can you figure out what the flat fee was?
\$2.20

Question 31

From Store A, the total cost to ship a 5-ounce package is \$4.25, and the total cost to ship a 6-ounce package is \$4.60. Store B charges a flat fee of \$1.50, plus \$0.50 per ounce to ship a package.

Which statement is true?

- A)** The flat fee for shipping is \$0.15 more at Store B.
- B)** The flat fee for shipping is \$1.00 more at Store A.
- C)** The flat fee for shipping is \$1.15 more at Store B.
- D)** The flat fee for shipping is \$2.00 more at Store A.

HOMEWORK: 30 Minutes of ALEKS