

Warmup 10/ (# of vowels + consonants in the alphabet)

Created by Mr. Lischwe

Each group needs a giant whiteboard, marker, eraser!!!

1) Find the slope between $(4, -3)$ and $(-2, 3)$.

2) Find the equation.

x	y
2	10
4	22
6	34
8	46

3) This table is:

A. Not linear

B. Linear but not proportional

C. Linear and proportional

x	2	3	6	8
y	10	14	26	34

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.”

Most useful representation?

1. What is the temperature after 2 days?
2. How quickly is the temperature rising?
3. What is the temperature after 30 days?
4. When does the temperature hit 0°?

Verbal Description

“The temperature was -11°F and rose 4.5° per day.”

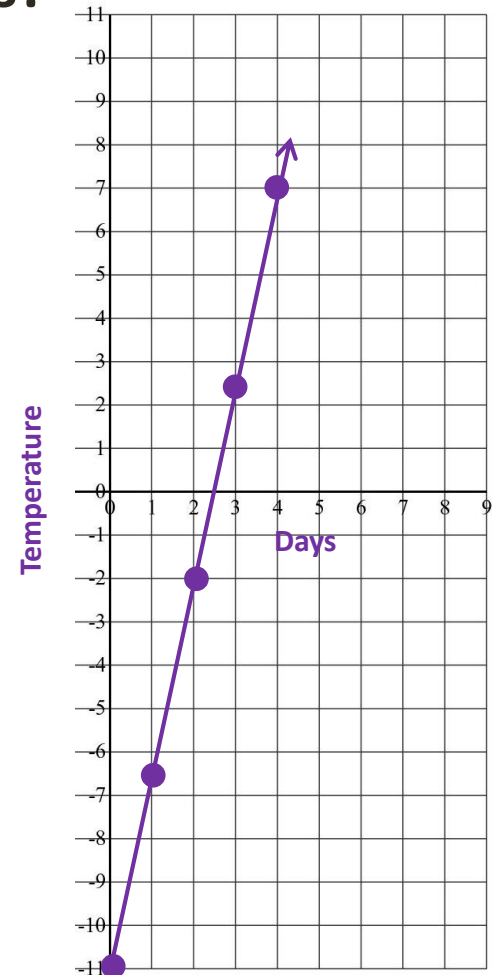
Table

x (days)	y (°F)
0	-11
1	-6.5
2	-2
3	2.5
4	7

Equation

$$y = -11 + 4.5x$$

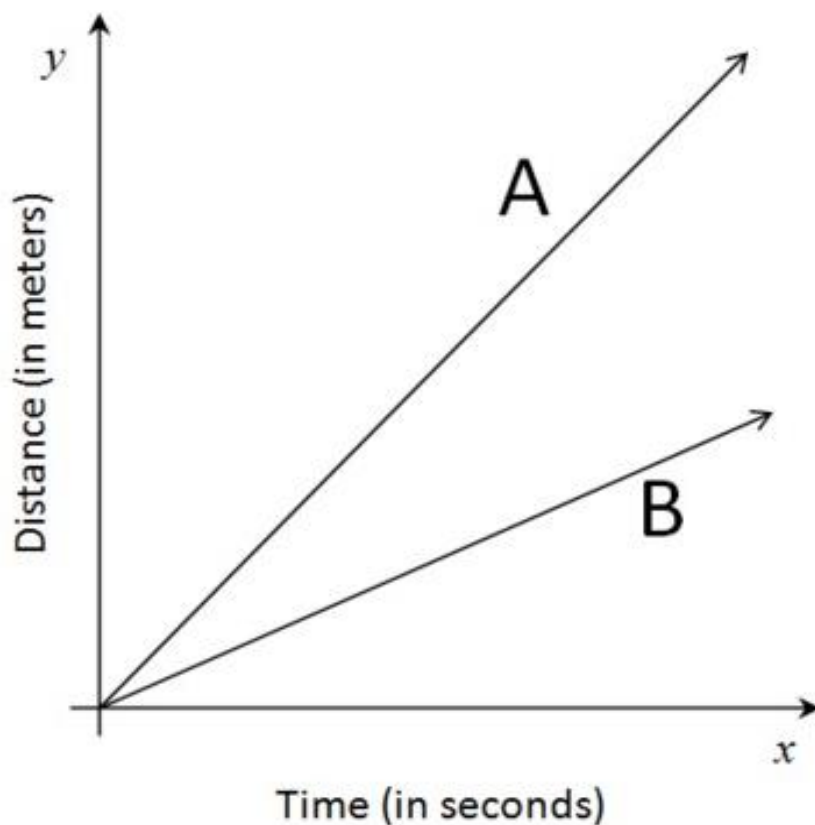
Graph



The graphs below show the distance two cars have traveled along the freeway over a period of several seconds. Car A is traveling 30 meters per second.

Which equation from those shown below is the best choice for _____ describing the distance traveled by car B after x seconds? Explain.

- a. $y = 85x$
- b. $y = 60x$
- c. $y = 30x$
- d. $y = 15x$



D (B is less steep than A, so the slope must be less than 30)

Shipping packages...

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**

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.

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$$5 \text{ oz} = \$4.25$$

$$6 \text{ oz} = \$4.60$$

Find the difference: 1 oz is \$0.35

Subtract 35 cents 5 times: Flat fee for A is \$2.50

B

Question 34

Jana wrote the ordered pairs $(2, 2)$, $(4, 3)$, and $(10, 6)$. These ordered pairs satisfy a linear function.

Which ordered pair satisfies the **same** linear function?

- A) $(12, 8)$
- B) $(14, 7)$
- C) $(20, 11)$
- D) $(24, 16)$

Think outside the box. There are MANY ways you can solve this problem!!!

HOMework: 30 Minutes of ALEKS

Story Problems Worksheet is due TUESDAY.