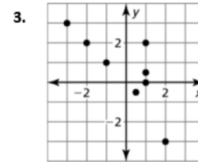
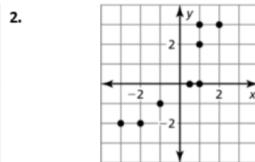
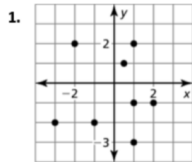


# Bell Ringer

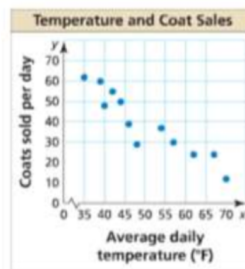
**Thursday 9/26**

Tell whether  $x$  and  $y$  show a *positive*, a *negative*, or *no* correlation.



4. The scatter plot shows average daily temperature and the number of coats sold per day.

- a. How many coats were sold when it was 35 degrees?
- b. How many coats were sold when it was 70 degrees?
- c. What was the temperature the day 30 coats were sold?
- d. Is there any relationship between the average daily temperature and the number of coats sold? Explain.



Review...  $y - y_1 = m(x - x_1)$

Write an equation in point-slope form of a line that passes through the given points

$$\frac{5-3}{-1-2} = \frac{2}{-3}$$
$$m = -\frac{2}{3}$$

$(2, 3)$  and  $(-1, 5)$

$$y - 3 = -\frac{2}{3}(x - 2) \quad \checkmark$$
$$y - 5 = -\frac{2}{3}(x + 1) \quad \checkmark$$

Review...

Write a linear function  $f$  in slope-intercept form with the given values

$$f(8) = -2, \quad f(2) = 4$$

$$(8, -2)$$

$$(2, 4)$$

$$\frac{4 - (-2)}{2 - 8} = \frac{6}{-6} = -1$$

$$y - 4 = -1(x - 2)$$

$$y - 4 = -x + 2$$

$$f(x) = mx + b$$

$$f(x) = -x + 6$$

$$4 = -1(2) + b$$

$$4 = -2 + b$$

## Review...

Are the lines parallel, perpendicular or neither?

The lines that pass through the points:

Line a: (7, 2) and (-3, 3)

Line b: (6, 2) and (5, -8)

$$\frac{3-2}{-3-7} = \frac{1}{-10}$$

$$\begin{aligned} \frac{-8-2}{5-6} &= \frac{-10}{-1} \\ &= \frac{10}{1} \end{aligned}$$

## Review...

Determine if the lines are parallel, perpendicular or neither

Line a:  $\frac{2}{2}y = -\frac{3}{2}x + \frac{7}{2}$

$$y = -\frac{3}{2}x + \frac{7}{2}$$

$$m = -\frac{3}{2}$$

Line b:  $-\cancel{6}x + 4y = 12$

$$\frac{4}{4}y = \frac{6x}{4} + \frac{12}{4}$$


$$y = \frac{3}{2}x + 3$$

$$m = \frac{3}{2}$$

The table shows number of Instagram posts and total number of likes. Can the data in the table be modeled by a linear function? If so, write a model that represents number of likes as a function of posts.

<b>Posts</b>	15	19	23	27	+4
<b>Likes</b>	3,960	5,016	6,072	7,128	+1,056

$(15, 3,960)$

$$m = \frac{1,056}{4}$$


$$m = 264$$

$$y - 3,960 = 264(x - 15)$$

$$y - 3,960 = 264x - 3,960$$

$$+3,960 \quad +3,960$$

$$y = 264x$$



## Ch 4 Quiz (4.1 - 4.3)

NO PHONES :)

When finished:

Double check answers

Turn in the basket

Finish missing hw

Read