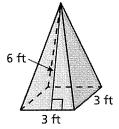
Homework

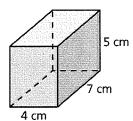
Find the surface area of the pyramid. The side lengths of the base are equal.

1.

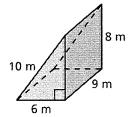


Find the surface area of the prism.

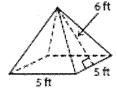
3.



4.



5. Look at the pyramid below.



What do you need to know to find the surface area of a pyramid?

Tell whether each statement about the pyramid is *True* or *False*.

a. The area of each triangular face is 30 square feet.

-	True		Fals
	* * **	L	2 200 2000

b. The surface area of the pyramid is 85 square feet.

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c. A net of the pyramid would have three triangular faces.

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d. The area of the base is 25 square feet.

1		
	True	- 1
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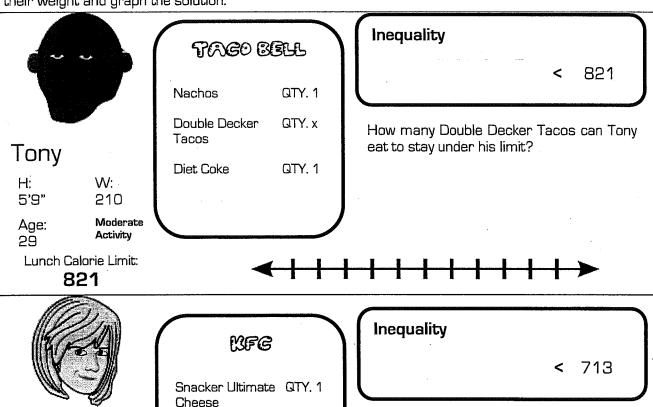
_____ False

FRATT FOOD

Stamped on the back of any label in your kitchen is a list of Nutrition Facts. On this label it shares the details of what is actually in the food being eaten. At the top of the list... calories. Calories are in practically everything we eat. Most

simply, calories are energy that fuels our bodies. Simply put, if you eat more calories than you use - you have extra (gain weight). If you eat less calories than you use - you burn calories stored in fat cells (lose weight). Of course, not eating enough calories is another issue altogether which will lead to other health problems. The point? Eat smart.

Typically fast food is the brunt of the public scrutiny. Many eat it for convenience, but it lacks the nutritional value of a good home cooked meal. Using the menus on the handout "Fast Food Nation" help five people write inequalities to determine if their lunch is within their daily calorie limit to maintain their weight and graph the solution.



Jessica

H: 5'3" W: 125

Age: 23

Verv Active

Lunch Calorie Limit:

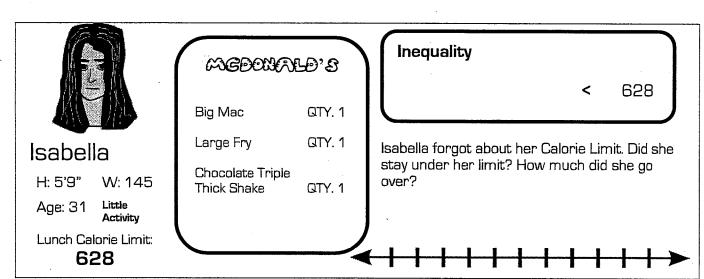
713

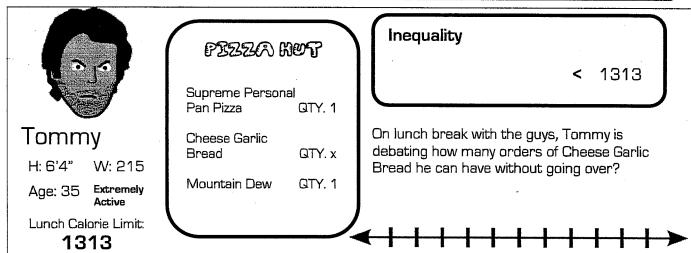
Potato Wedges QTY. 1

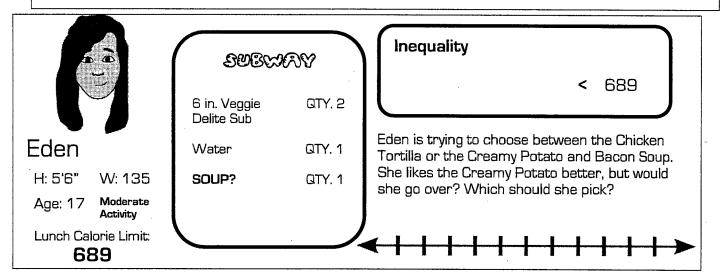
QTY. x

Raspberry Iced Tea

Jessica would like to get a Raspberry Iced Tea if she would stay under her limit? Would she?







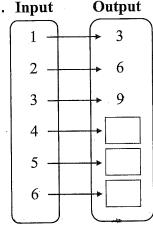
EXTENSION: The recommended calorie intake varies from person to person, but is typically between 1800 to 2400 calories a day. If this was spread across 3 equal meals, it's roughly between 600 to 800 calories per meal. Based on this activity and the **Fast Food Chart**, how well does fast food fits into this diet? Explain.

6.1

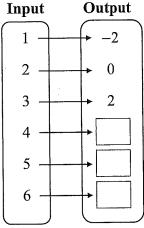
Practice A

Describe the pattern in the mapping diagram. Copy and complete the diagram.

1. Input

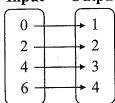


2. Input

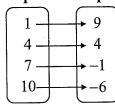


List the ordered pairs shown in the mapping diagram.

3. Input Output



4. Input Output



Draw a mapping diagram of the set of ordered pairs.

6.
$$(-2, 7), (0, 5), (5, 8), (4, 9)$$

- 7. The table shows the number of tickets purchased and the total cost.
 - a. Use the table to draw a mapping diagram.
 - **b.** Is the relation a function? Explain.
 - c. Describe the pattern. How does the cost per ticket change as you buy more tickets?
 - d. Based on this pattern, how much would you expect to pay for 5 tickets?
 - e. Compare the costs for 3 tickets and 5 tickets. What can you suggest?
 - f. Explain why this pattern could not continue for up to 8 tickets.

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Worksheet Level 2: Writing Linear Equations

Goals:

I have mastered level 2 when I can:

Write an equation given the slope and y-intercept

Write an equation from a table

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

1) Slope =
$$\frac{9}{4}$$
, y-intercept = -4

2) Slope =
$$-\frac{7}{4}$$
, y-intercept = 5

3) Slope = 2, y-intercept =
$$4$$

4) Slope =
$$-\frac{1}{2}$$
, y-intercept = -2

Write an equation in slope-intercept form for each table below. Show how you found the slope and y-intercept.

i. $\begin{array}{c|ccc} x & y \\ \hline 0 & 0 \\ 1 & 2.5 \\ 2 & 5 \\ 3 & 7.5 \end{array}$

10

Write a linear equation for each table relating x and y.

- x
 0
 3
 6
 10

 y
 2
 8
 14
 22
- **b.** x 0 3 6 10 y 20 8 -4 -20
- x 2 4 6 8 y 5 8 11 14
- d. x 0 3 6 9 y 20 11 2 -7

Determine if the table represents a linear relationship, if yes, write an equation in slope-intercept form.

 x
 2
 4
 6
 8
 10
 12
 14

 y
 0
 1
 2
 3
 4
 5
 6

b.	х	1	2	3	4	5	6	7
	У	0	3	8	15	24	35	48

c. x 1 4 6 7 10 12 16 y 2 -1 -3 -4 -7 -9 -13

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

1) Slope =
$$\frac{5}{2}$$
, y-intercept = 0

3) Slope =
$$-\frac{7}{2}$$
, y-intercept = 3

4) Slope =
$$-1$$
, y-intercept = -2

Find the slope and y-intercept for each table, and then write an equation.

х	0	1	2	3	4
У	0	2	4	6	8

Х	0	1	2	3	4
У	3.5	4.5	5.5	6.5	7.5

X	2	3	4	5	6
y	-11	-14	-17	-20	-23

х	-3	-2	-1	0
У	7	5	3	1