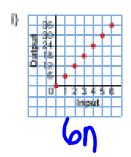
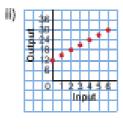


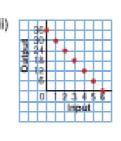
Homework Solutions

- 6. Match each graph to its relation.
  - a) The number of seashells collected is related to the number of students who collected. There are 12 seashells to start.
    Each student collects 3 seashells.
  - b) The number of counters on the teacher's desk is related to the number of students who remove counters. There are 36 counters to start. Each student removes 6 counters.
  - c) The money earned baby-sitting is related to the number of hours worked. The baby-sitter earns \$6/h.

(J	Input	Output	
	1	6	6n
	3	18	
	と)   <del>  本</del>	124	<u> </u>



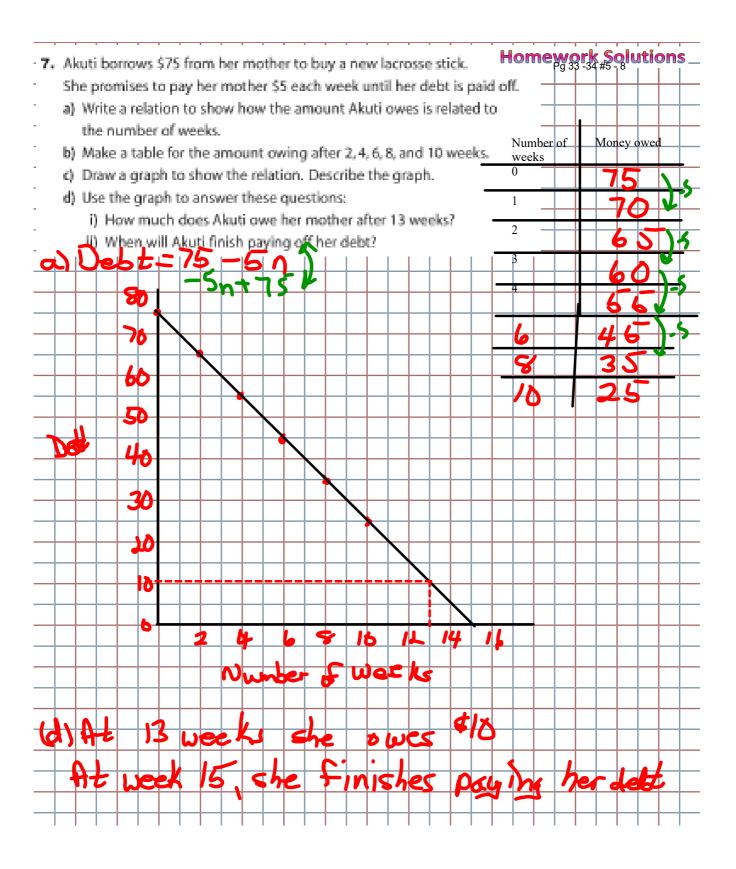




\	1	1 1	1
	Input	Output	- 112
	0	12	3nナル
		15	
	7	18	
	3	2	(~)
	4	24	
		,	<del></del>

(iii)

Input	Output	115
6	36	(6)
	30	01-01
1	2	50
3	18	1
7	12	_



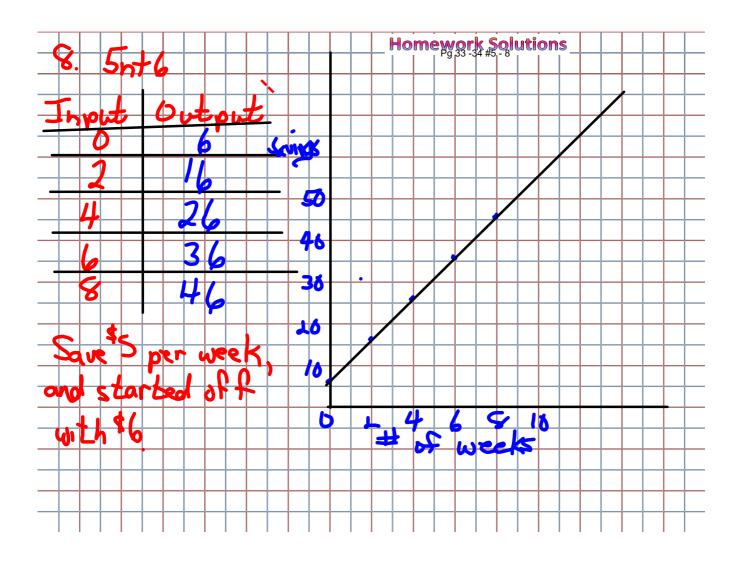
- **8.** (Assessment Focus) Use the relation: 5n + 6 is related to n Homework Solutions
  - a) Describe a real-life situation that could be represented by this relation.
  - b) Make a table of values using appropriate Input numbers.
  - c) Graph the relation. Describe the graph.
  - d) Write 2 questions you could answer using the graph. Answer the questions.

### Step-by-Step 6

#### Lesson 1.6, Question 8

**Step 1**5n + 6 related to n could describe the amount of money I've saved after n weeks, if I started with \$6 and saved \$5 per week. Describe another real-life situation that this relation could represent.

Step 2Complete this table of values for the relation. Use Input numbers that make sense with your real-life situation. Step 3Plot the data in the table on the grid. Choose a scale for the horizontal axis that fits your Input numbers. Horizontal scale: 1 square = Choose a scale for the vertical axis that fits your Output numbers. Vertical scale: 1 square = Step 4Write two questions you could answer using the graph, then answer each question.	



## Section 1.7 Reading & Writing Equations



Write an algebraic expression for these statements:

Think of a number.

Multiply by 2. 2 n

Add 3. 2n + 3

Expressions have NO EQUAL sign

What if...

I tell you the answer is 13. What is the original number?

$$2n + 3 = 13$$
 $10 + 3$ 
 $2(3)$ 



How could we relate this algebraically?

Write an equation for the situation.

Let "s" represent the cost of 1 shirt.

Then the cost of 6 Shirts is \_\_\_\_\_\_.

This is equal to \$72.

EQUATION is: 65 = 72

# Equations have an equal sign

(One quantity is EQUAL to another quantity)



In an EQUATION the variable represents a SPECIFIC unknown number.

$$3x + 2 = 11$$

x is a specific number

## Example:

Write an equation for each:

a) 7 less than a number is 10

$$n-7 = 10$$

b) 2 more than a number is 20

70

\*Always define the variable

let n represent the

Rumber

c) 6 added to 4 times a number is 14

d) a product of 7 and a number is 77

$$\neg n = \neg \neg$$

# Class/Homework

