Unit Review

 1. a) Circle the numbers that are divisible by 4. 312 1407 204 3441 640 763 b) How do you know if a number is divisible by 4? 2. a) Circle the numbers that are divisible by 2 and by 3. 606 330 501 2466 492 9342 b) What other number are the circled numbers in part a divisible by? How do you know? 3. Which numbers below are divisible by 8? Divisible by 5? How do you know? a) 244: b) 160: c) 315: d) 608: 4. Use your answers from question 3 to help you list all the factors of each number. a) 244: b) 160: b) 160: c 	ON		
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LESSON

1.3 5. Write an algebraic expression for each phrase. Use the variable n.

a) Three times a number:

b) Five less than a number:

c) Twenty divided by a number:

d) Seven more than four times a number:

6. Evaluate each expression for n = 5.

a) n + 7 =_____

b) 10 - n =____

c) 2n + 3 =_____

7. a) Zadie climbed four sets of stairs every minute for the Charity Stair Climb Fundraiser. Complete this table. The pattern continues.

Time (minutes)	1	2	3	4	5	6	7	8
Sets of stairs climbed								

- b) How many sets of stairs will Zadie have climbed after 15 minutes?
- 8. Write a relation for the pattern rule for each number pattern.

a) 3, 6, 9, 12, 15, ...

b) 8, 9, 10, 11, 12, . . .

1.5 9. Complete each table.

How is each Output number related to its Input number?

)	Input n	Output 3n + 5
	1	
	2	
	3	
	4	
	5	

Input n	Output 5 <i>n</i> + 3
1	
2	
3	
4	
5	

c)	Input n	Output 5 <i>n</i> – 3
	1	
	2	
	3	
	4	
	5	

10. Use algebra. Write a relation for each table.

13

15

17

a)	Input m	Output
	1	9
4	2	11

3

4

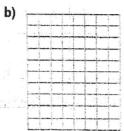
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Input m	Output
1	9
2	16
3	23
4	30
5	37

10		
c)	Input m	Output
	1	5
	2	12
	3	19
	4	26
	5	33

1.6 11. Graph each relation in question 10.

		1	3	3		
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1.7 12. Write an equation for each sentence.

Let n represent the number.

- a) Four times a number is sixteen.
- b) Eight subtracted from four times a number is sixteen.
- c) Twelve more than four times a number is sixteen.
- d) Thirty-two minus four times a number is sixteen.
- **13.** Write an equation for each sentence. Let *n* represent the number.
 - a) Four less than a number is sixteen.
 - b) A number divided by five is ten.
 - c) Five more than three times a number is eleven.

18 14. Robin walked twice around a lake, plus an extra 3 km.

Her pedometer showed that she had walked a total of 19 km.

Write then solve an equation to find how far it is around the lake.