

Unit Review

LESSON

- 1.1 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?

- 1.2 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: _____

c) 315: _____

d) 608: _____

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) $2n + 3 =$ _____

1.4 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?

a)

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

b)

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

c)

Input n	Output $5n - 3$
1	
2	
3	
4	
5	

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

a)

Input m	Output
1	9
2	11
3	13
4	15
5	17

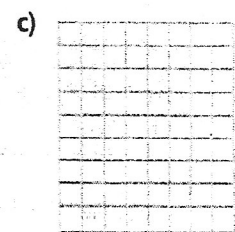
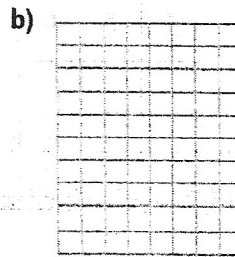
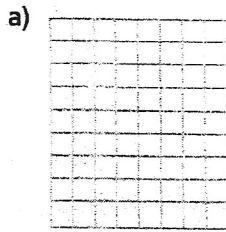
b)

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

c)

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

11. Graph each relation in question 10.



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. _____

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.